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LITIGATION TECHNICAL SUPPORT AND SERVICES

Rocky Mountain Arsenal

2

Boundary Control Systems
Assessment Remedial Investigation
Draft Final Report
(Version 2.2)
Volume III



421/2

November 1989
Contract Number DAAK11-84-D-0016
Task Number 25

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ELECTE
MAY 19 1994
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PREPARED BY

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

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PREPARED FOR

Office of Program Manager
Rocky Mountain Arsenal Contamination Cleanup

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13. ABSTRACT (Maximum 200 words)

THE OBJECTIVES OF TASK 25 ARE TO:

1. MONITOR GROUND WATER LEVELS AND CONTAMINANT CONCENTRATIONS IN THE ALLUVIAL AND DENVER AQUIFERS NEAR THE NORTH AND NORTHWEST BOUNDARIES
2. DEFINE MIGRATION PATHWAYS
3. PROVIDE WATER QUALITY AND HYDROLOGIC DATA FOR THE OPERATION OF THESE BOUNDARY SYSTEMS.

THIS DRAFT FINAL REPORT PRESENTS AN INTERPRETATION OF THE GEOLOGICAL AND HYDROGEOLOGICAL CONDITIONS NEAR THE BOUNDARIES AND A BRIEF DESCRIPTION OF THE SAMPLING PROGRAMS.

THE MAIN TEXT IS DIVIDED INTO THE FOLLOWING SECTIONS:

1. INTRODUCTION
2. PRESENTATION OF DATA COLLECTION METHODOLOGY, WELL INSTALLATION, AND MONITORING NETWORKS
3. DESCRIPTION OF ALLUVIAL AND DENVER FORMATION GEOLOGY

94 5 18 109

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APPENDIX B
TASK 25 SUPPORTING MAPS, HYDROGRAPHS, AND
CONTAMINANT DISTRIBUTION FIGURES

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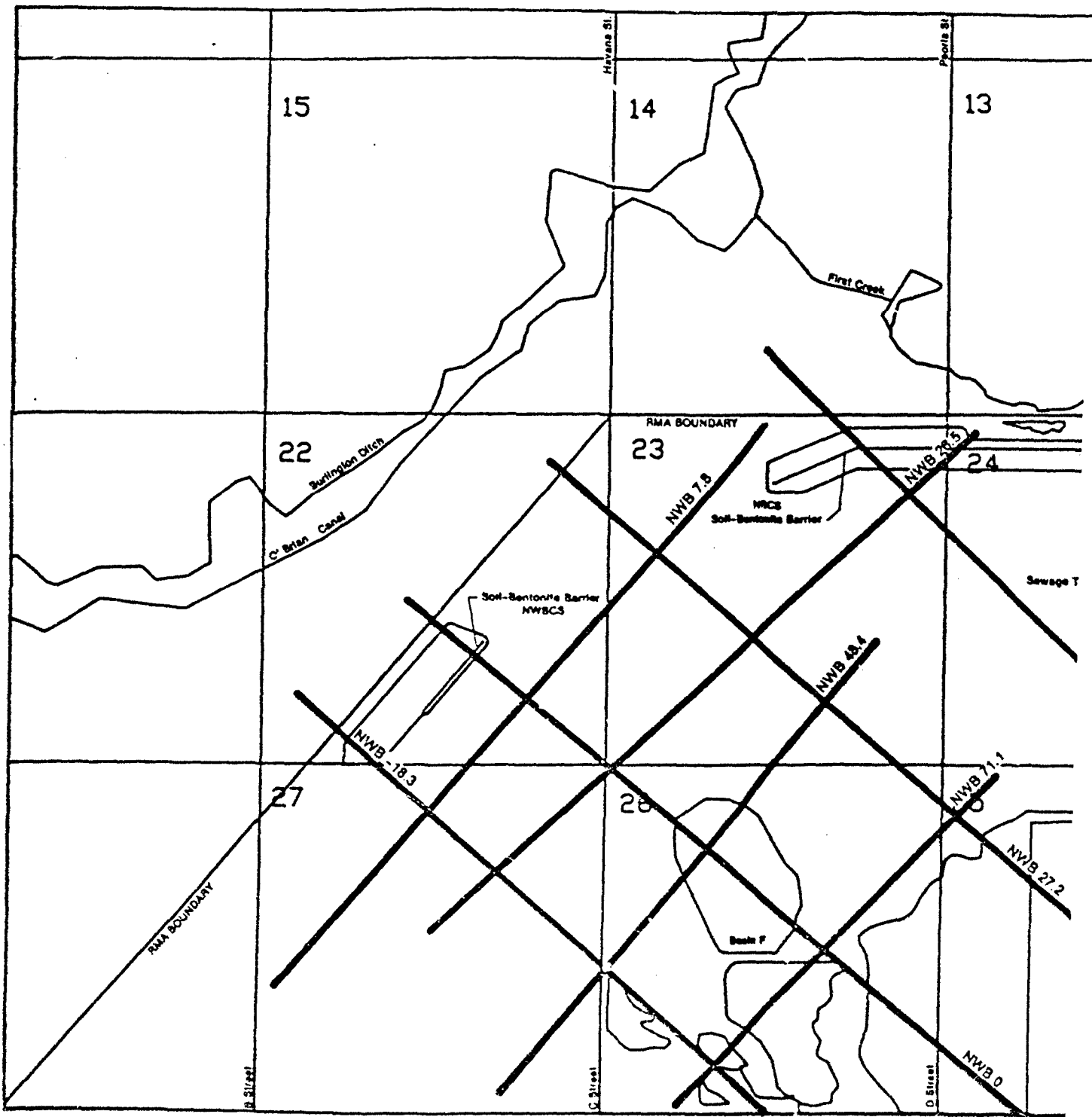
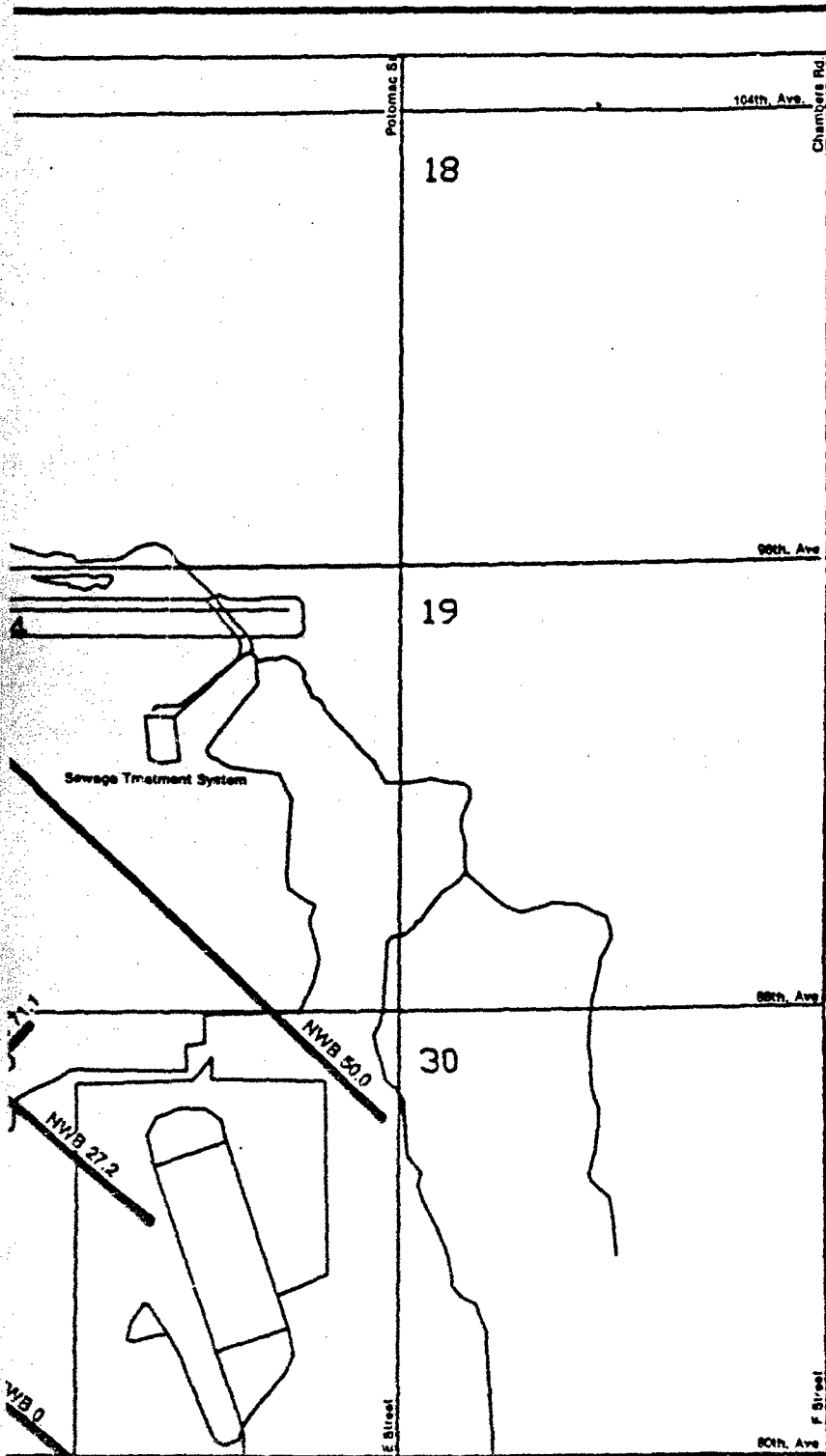


Figure B-1

CROSS SECTION LOCATION MAP

SOURCE: ESE, 1988



EXPLANATION

NWBCS NORTHWEST BOUNDARY CONTAINMENT SYSTEM

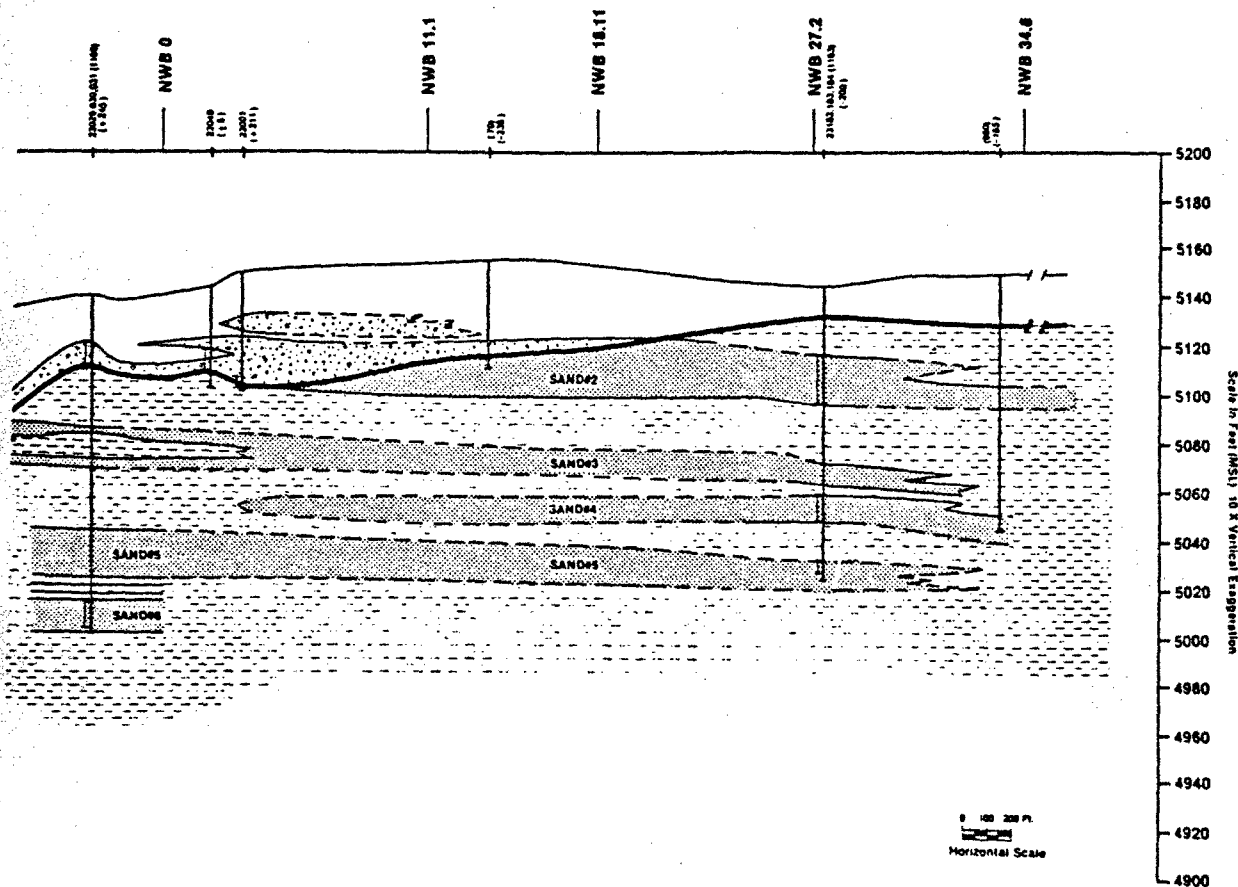
NBCS NORTH BOUNDARY CONTAINMENT SYSTEM

NWB 0 LINES OF SECTION

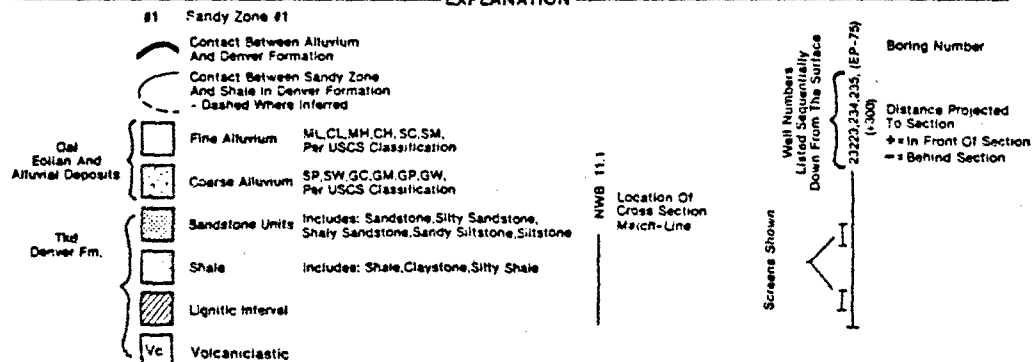
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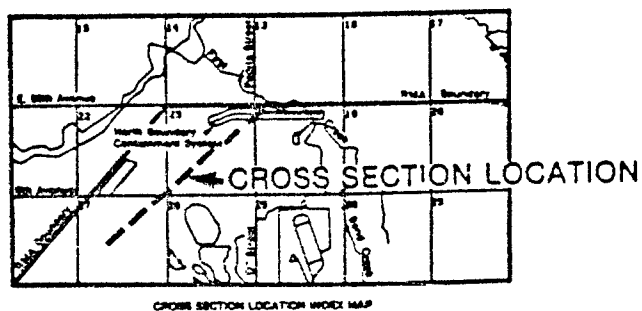
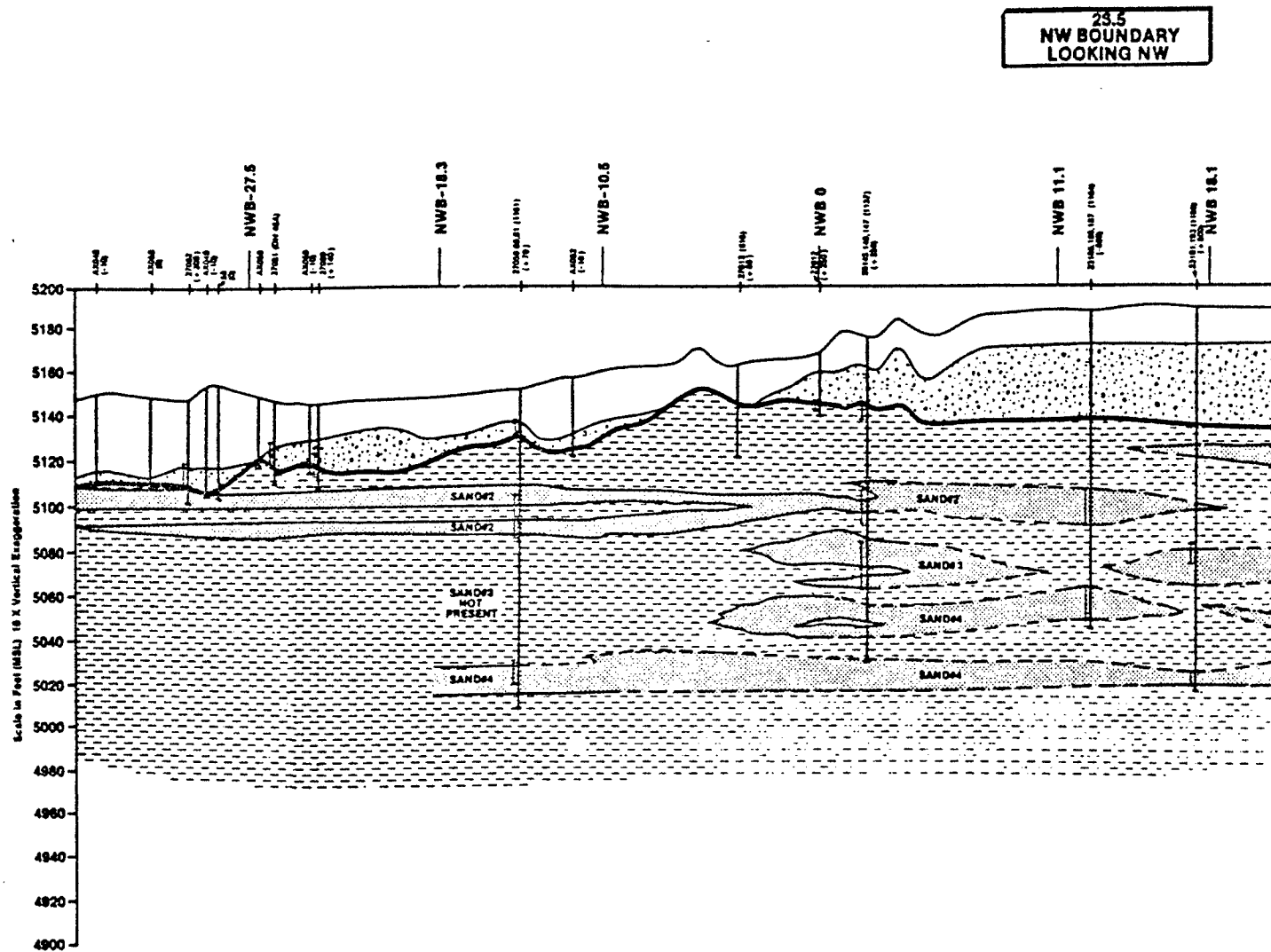
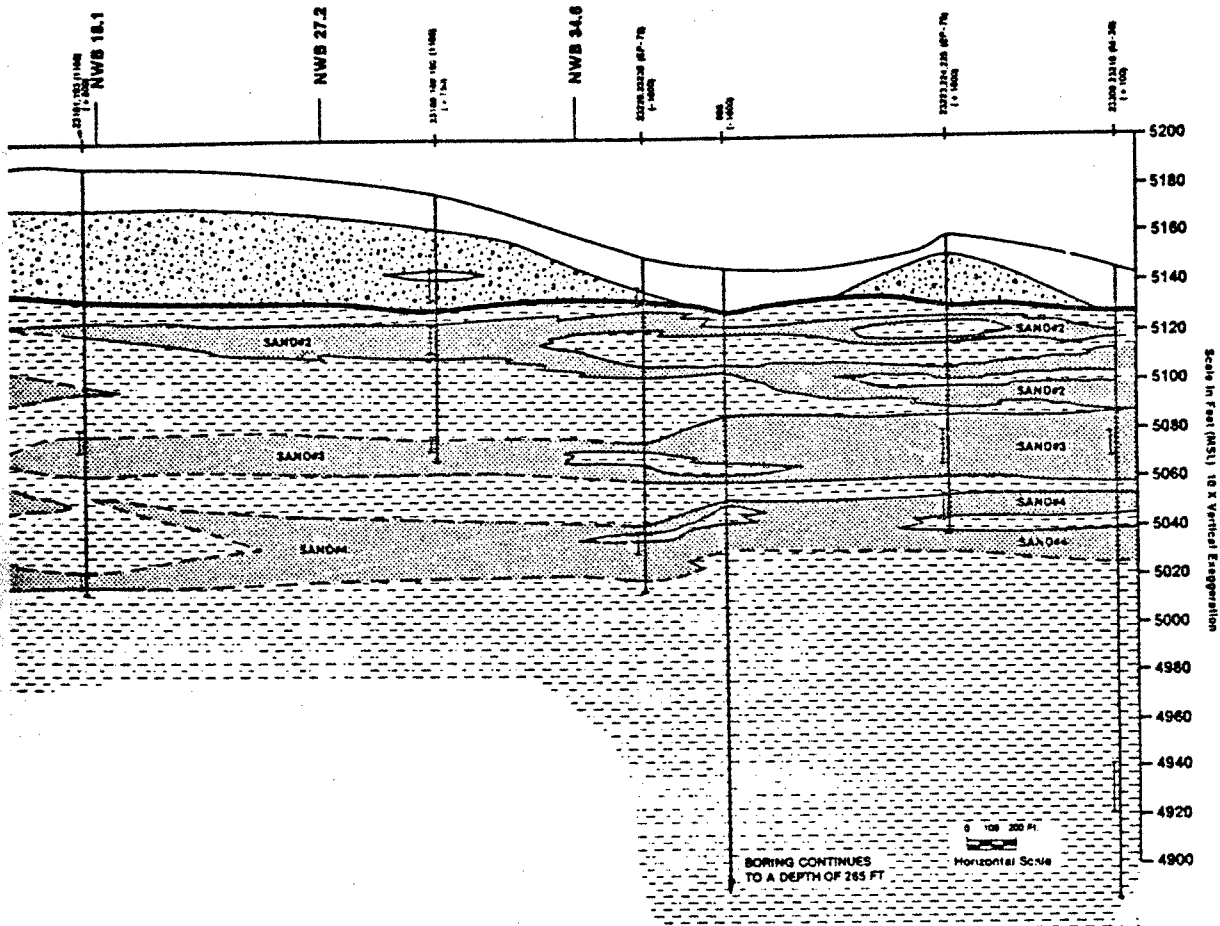


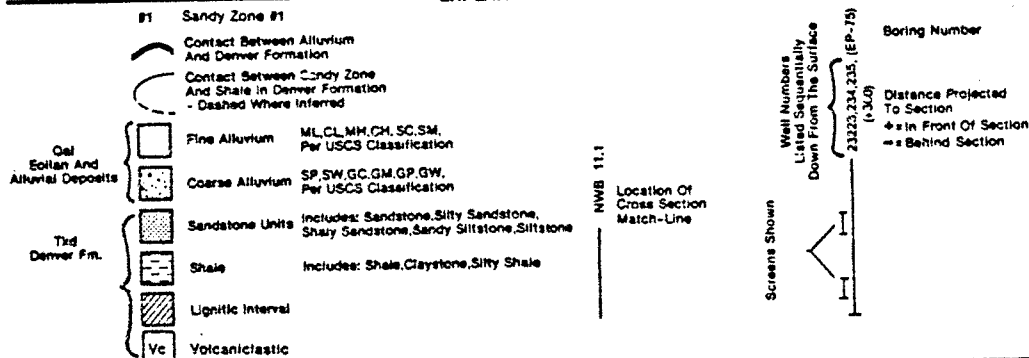
Figure B-3
NORTHWEST BOUNDARY CROSS SECTION 26.5

SOURCE: ESE, 1988

DARY
NW

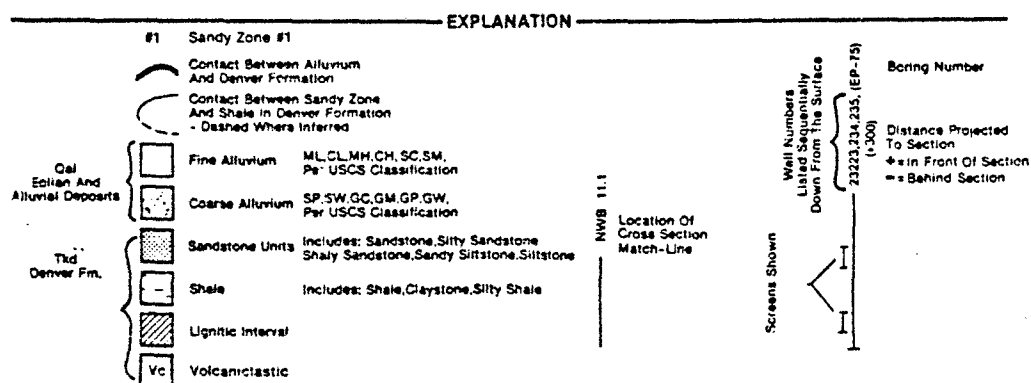
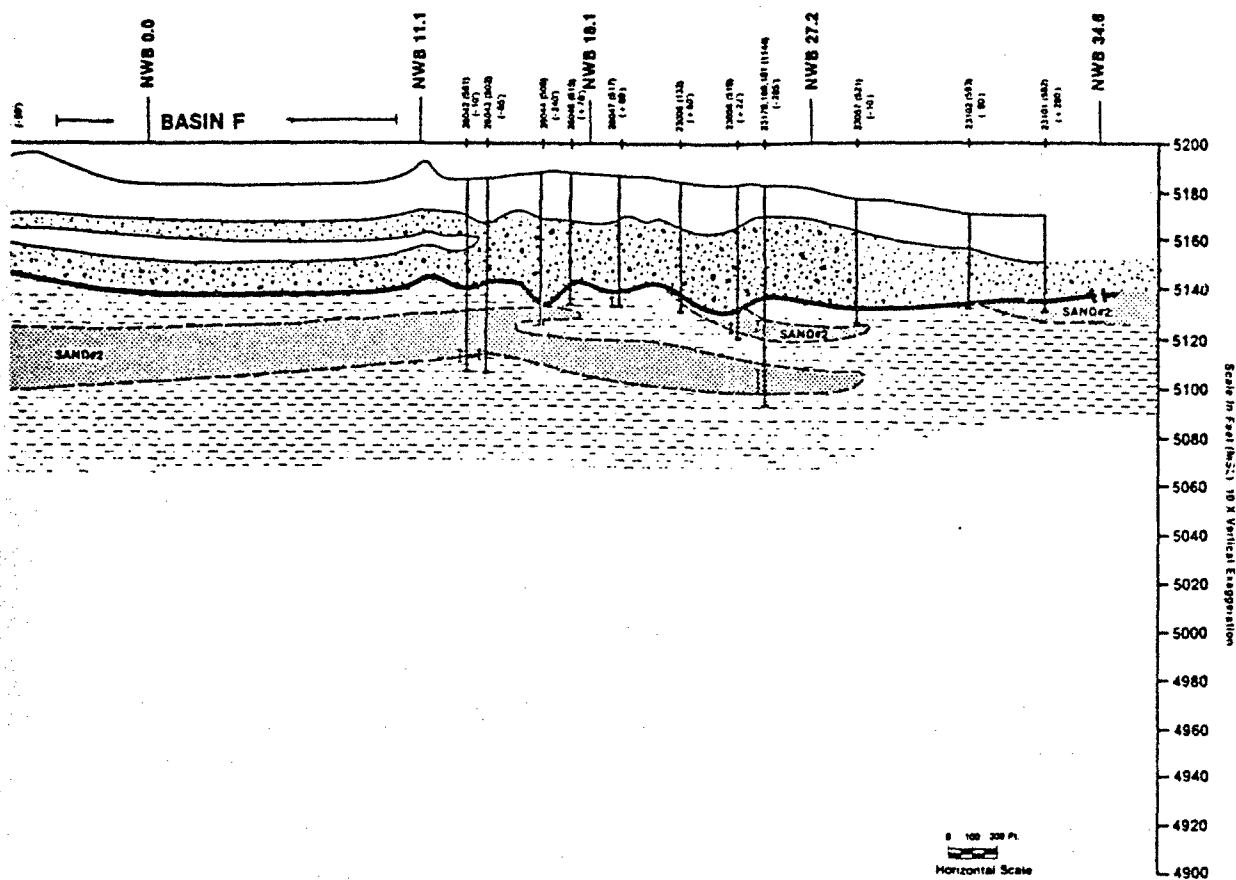


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4
INDARY
IG NW



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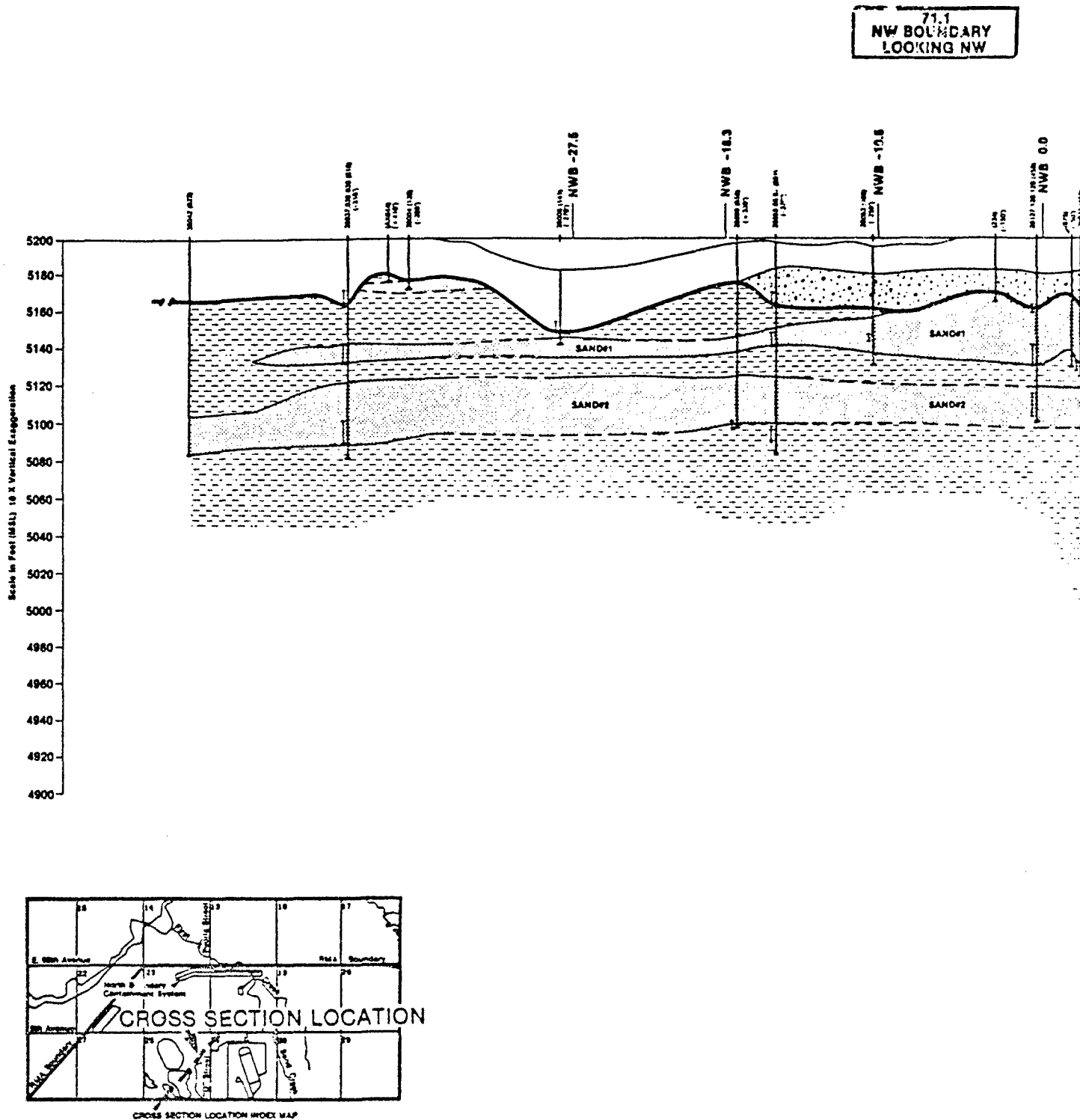
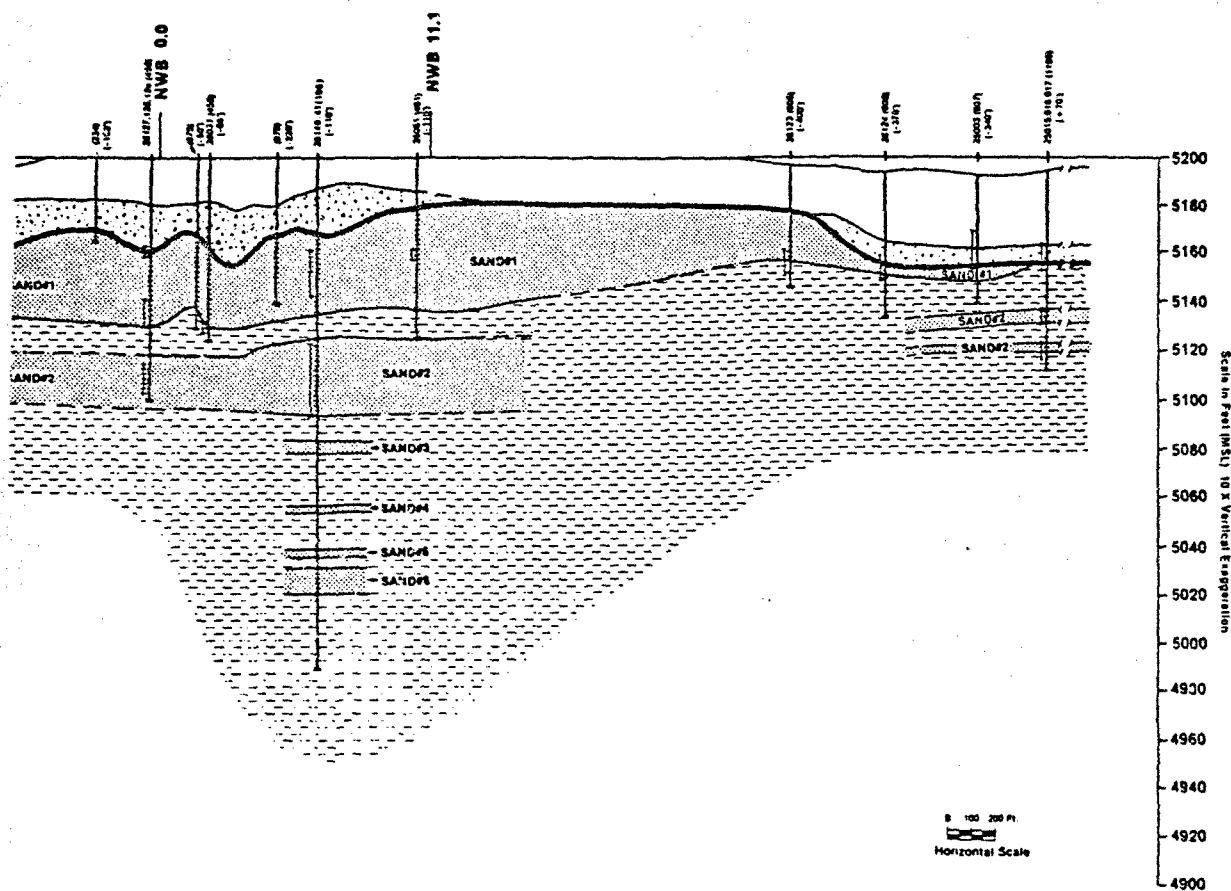


Figure B-5
NORTHWEST BOUNDARY CROSS SECTION 71.1

SOURCE: ESE, 1988

1
NDARY
4G NW



- EXPLANATION

- | | | EXPLANATION | | | |
|-----------------------------------|----|--|---|---|---------------|
| | #1 | Sandy Zone #1 | | | |
| | | Contact Between Alluvium And Denver Formation | | | |
| | | Contact Between Sandy Zone And Shale In Denver Formation - Dashed Where Inferred | | | |
| Gal. collar And Alluvial Deposits | | Fine Alluvium | ML, CL, MH, CH, SC, SM, Per USCS Classification | Well Numbers Listed Sequentially Down From The Surface | Boring Number |
| | | Coarse Alluvium | SP, SW, GC, GM, GP, GW, Per USCS Classification | | |
| Th'd Denver Fm. | | Sandstone Units | Includes: Sandstone, Silty Sandstone, Shaly Sandstone, Sandy Siltstone, Siltstone | NWB 11.1
Location Of Cross Section Match-Line
Screens Shown
Distance Projected To Section
* = In Front Of Section
- = Behind Section | |
| | | Shale | Includes: Shale, Claystone, Silty Shale | | |
| | | Lignitic Interval | | | |
| | | Volcaniclastic | | | |
| | | | | 23223, 234, 235, (EP-75)
(x300) | |

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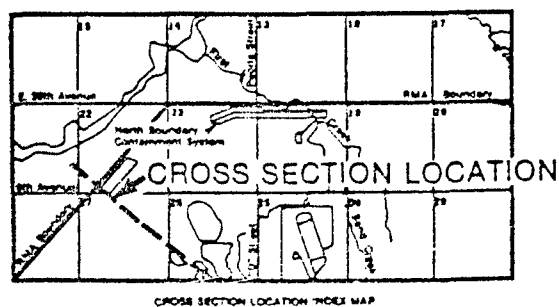
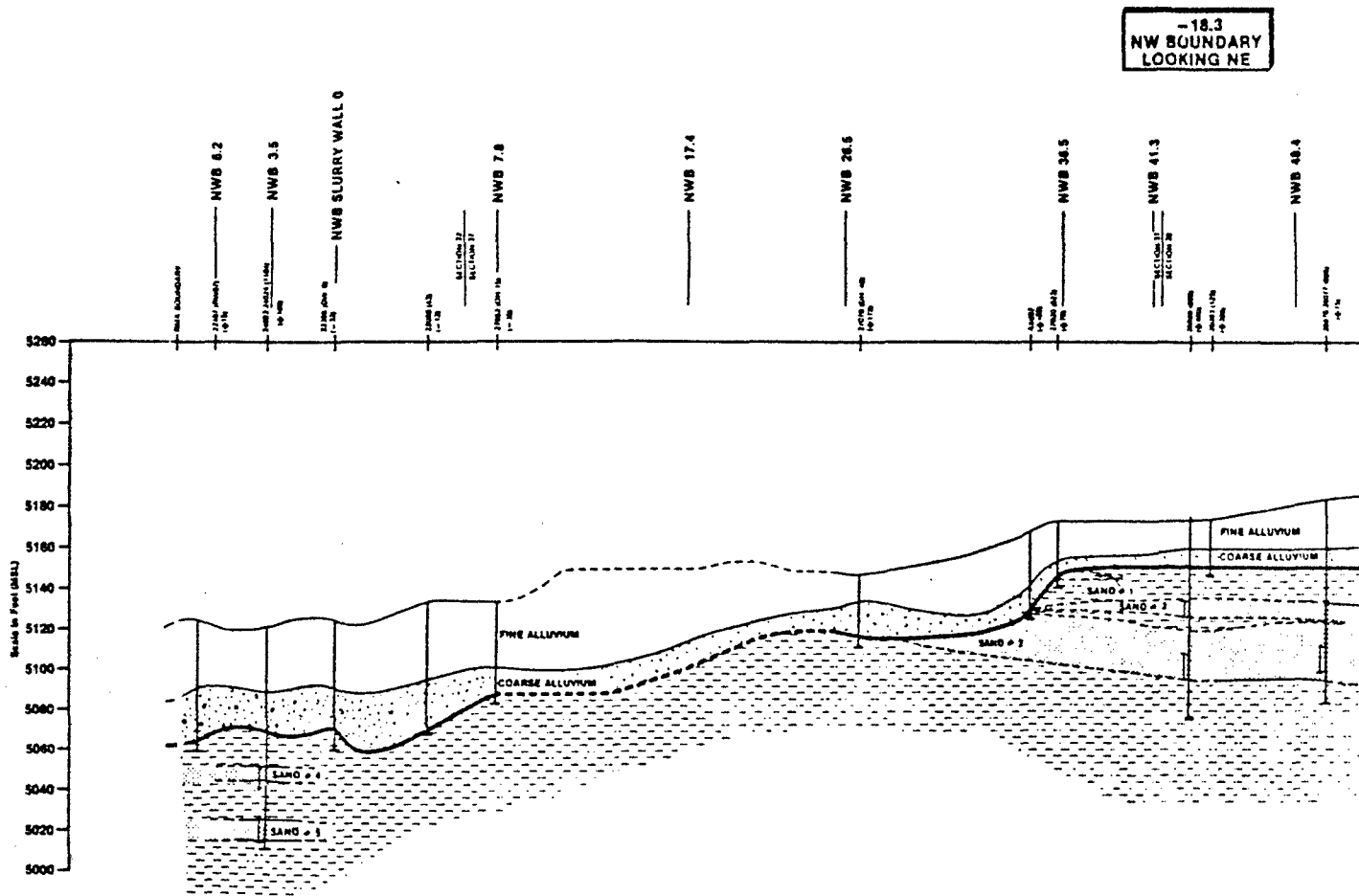
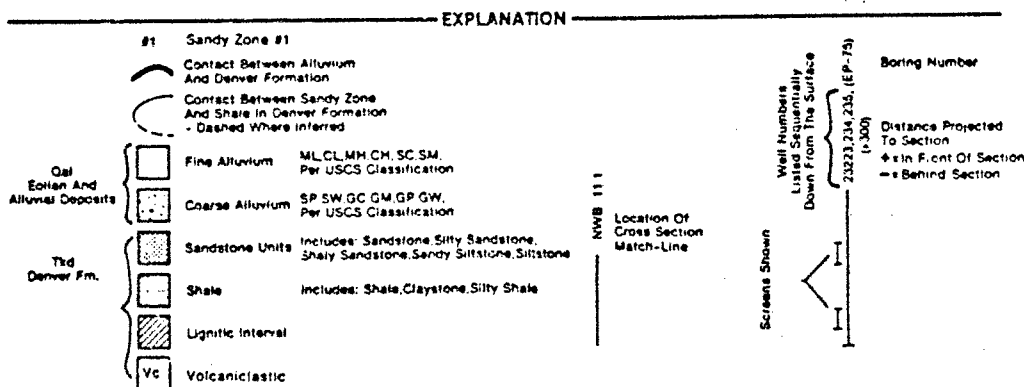
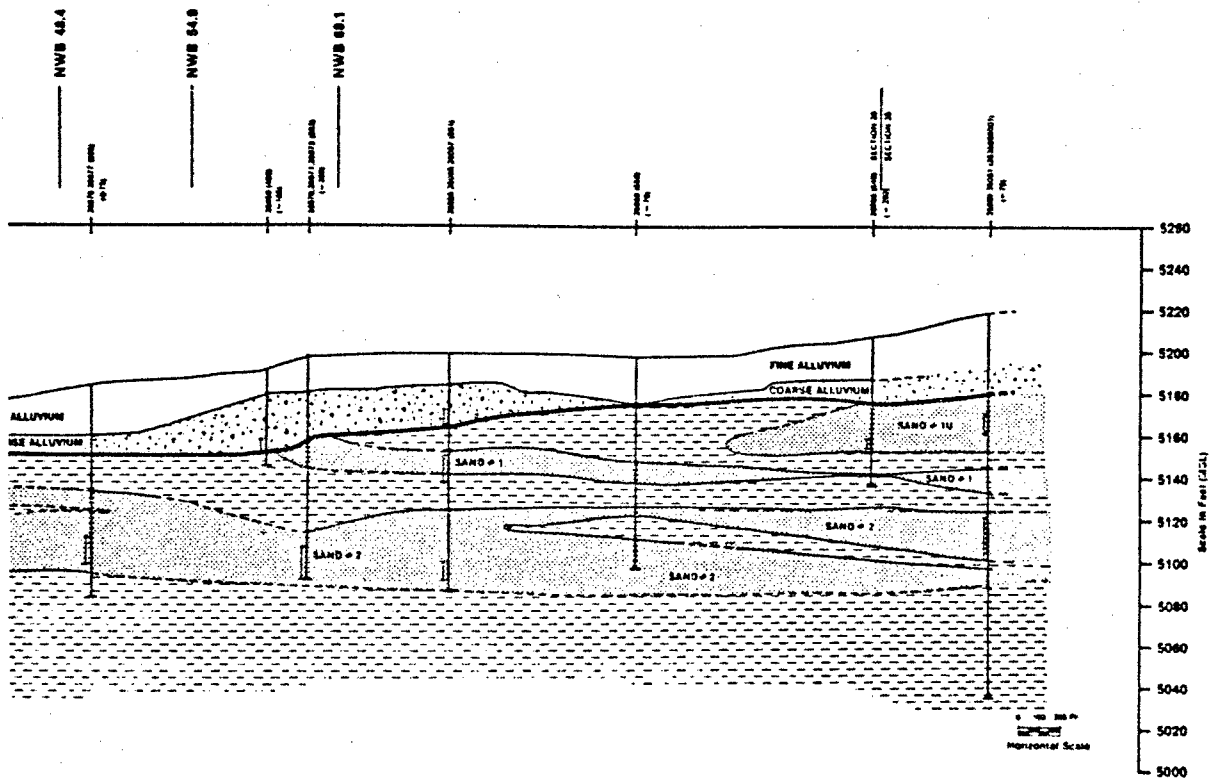


Figure B-6
NORTHWEST BOUNDARY CROSS SECTION -18.3

SOURCE: ESE, 1988

3Y



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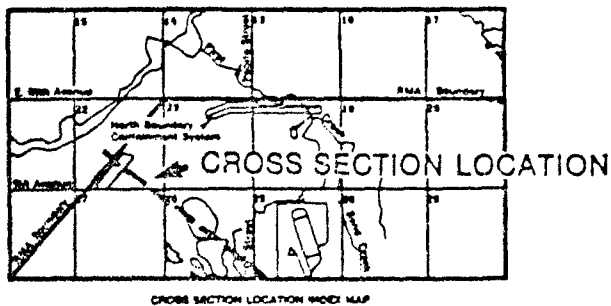
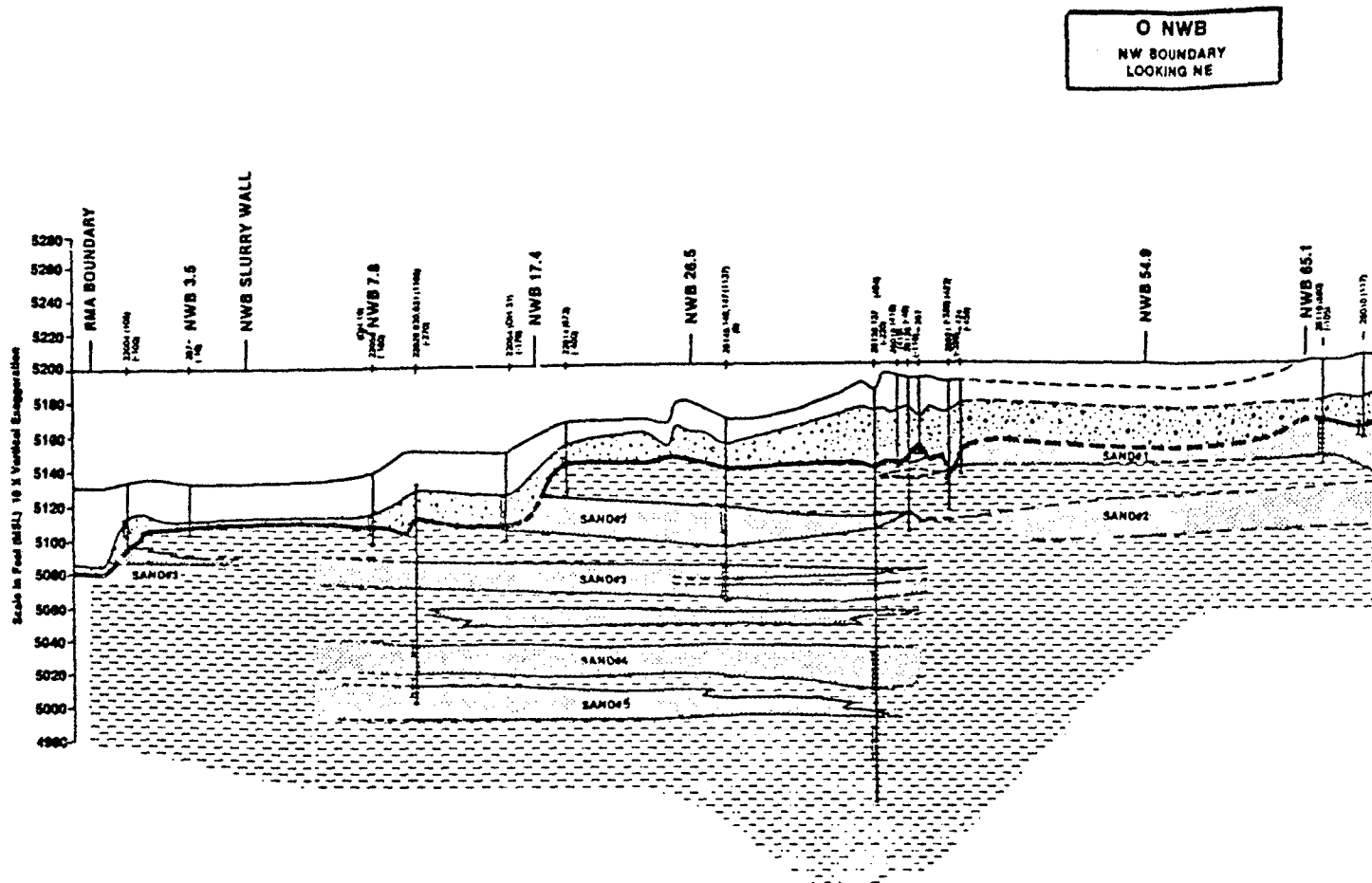
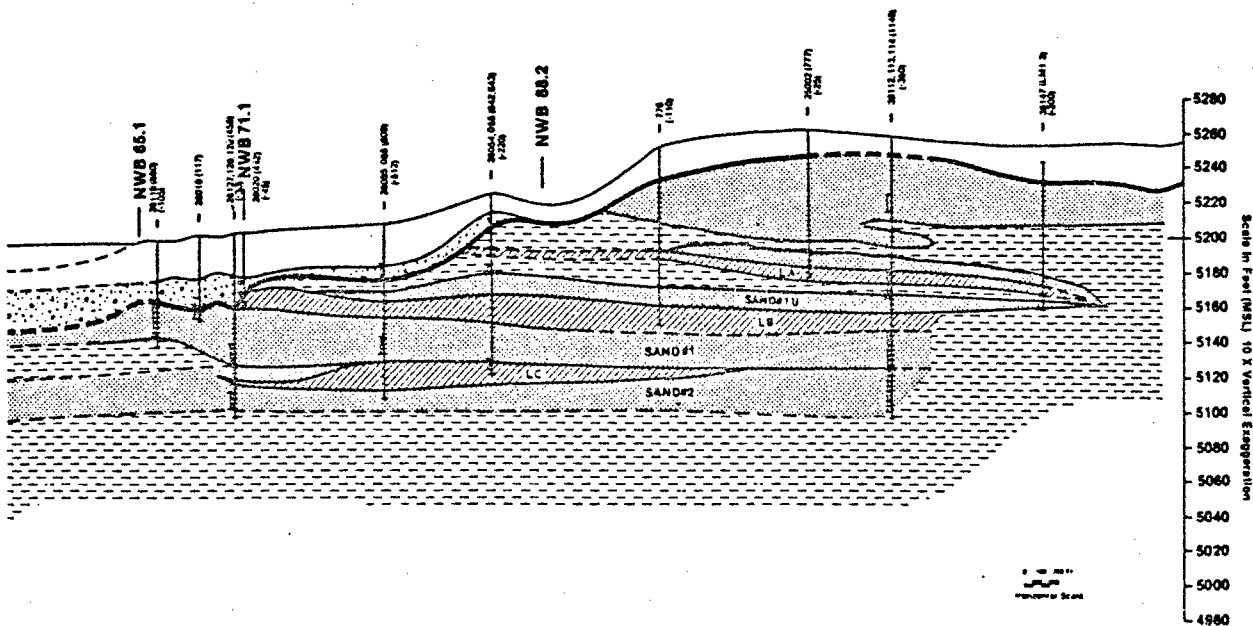
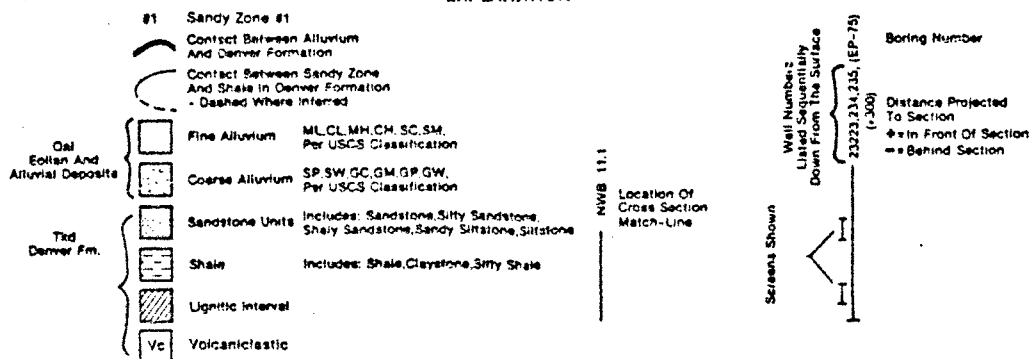


Figure B-7
NORTHWEST BOUNDARY CROSS SECTION 0.0

WB
NOARY
HQ NE



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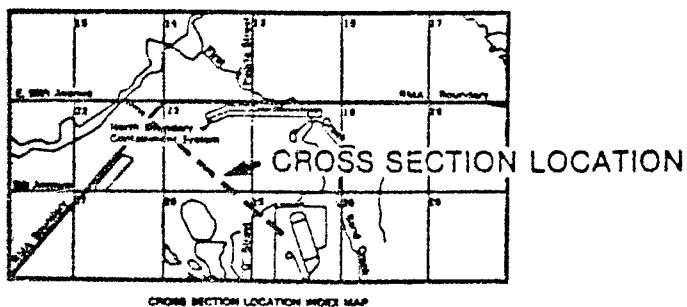
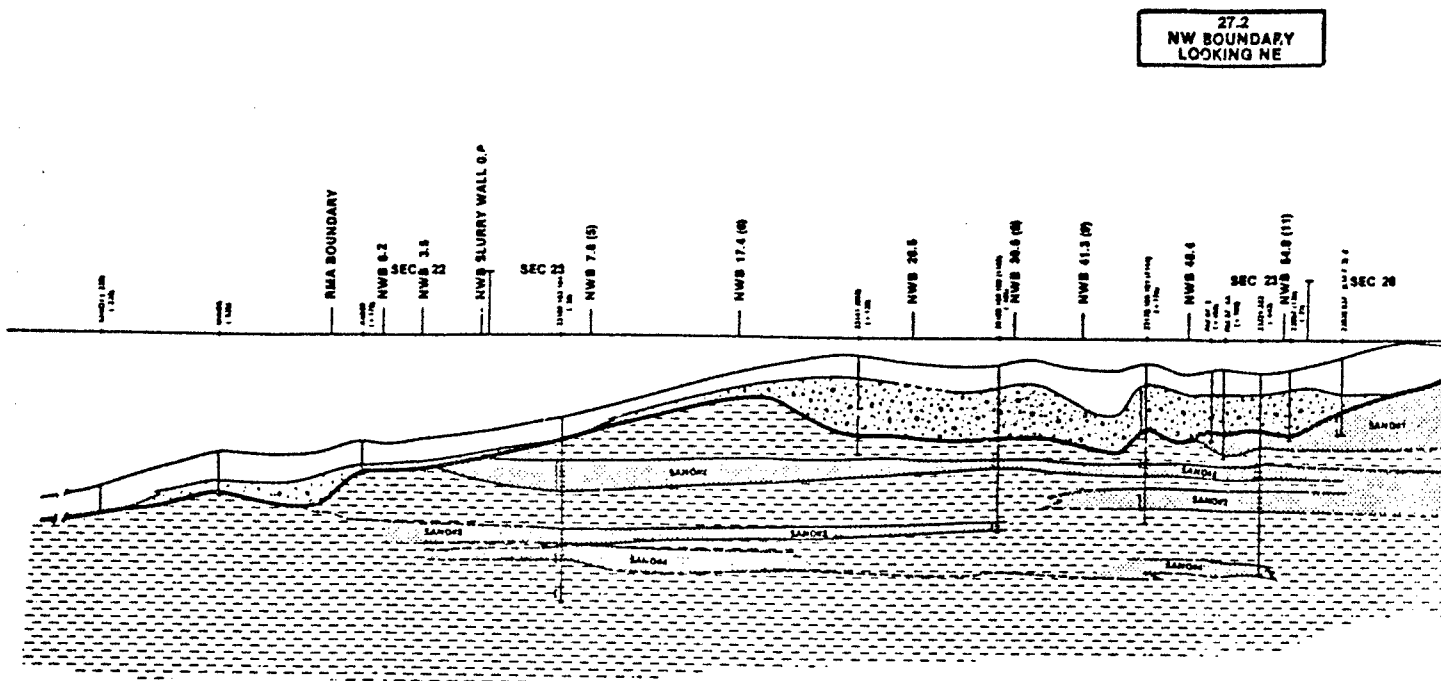
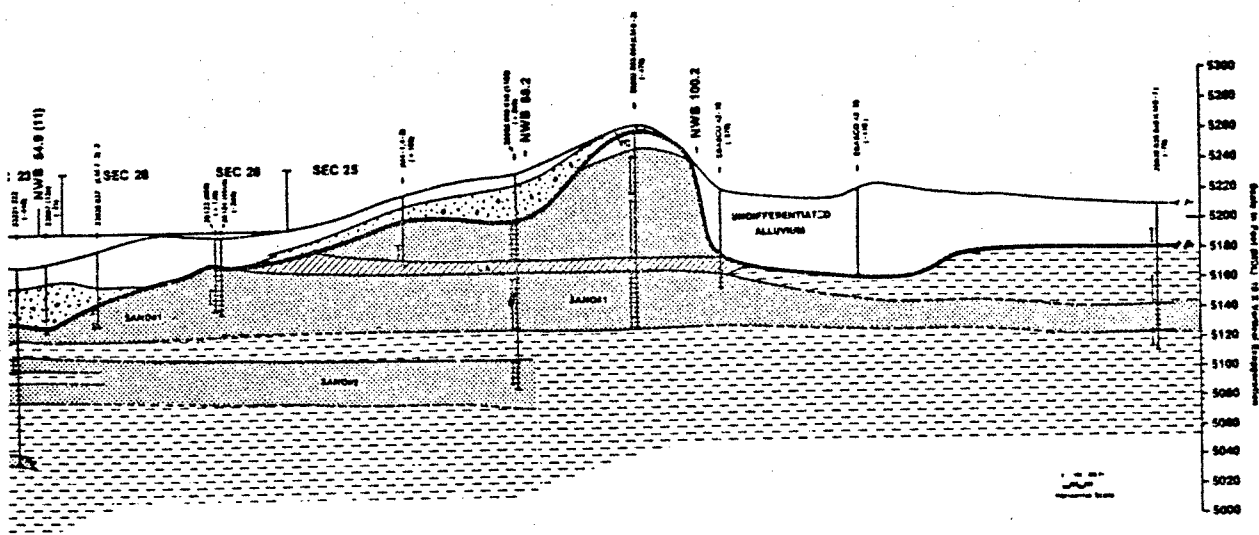


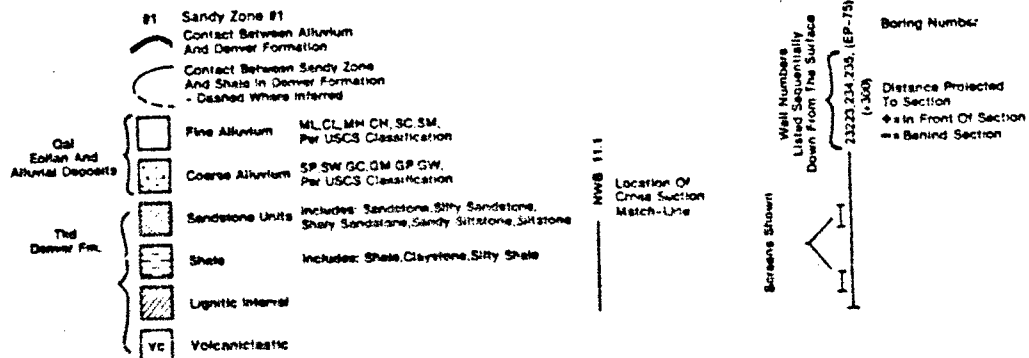
Figure B-8
NORTHWEST BOUNDARY CROSS SECTION 27.2

SOURCE: ESE, 1988

ARY
NE



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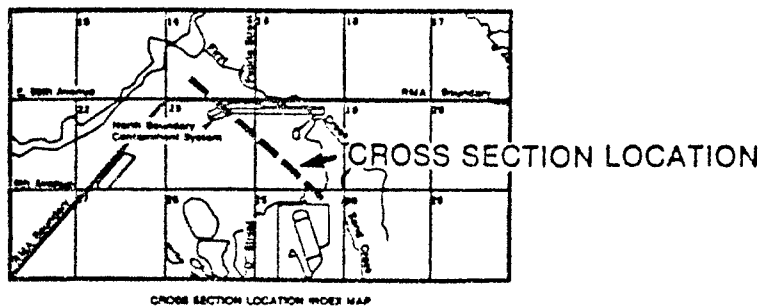
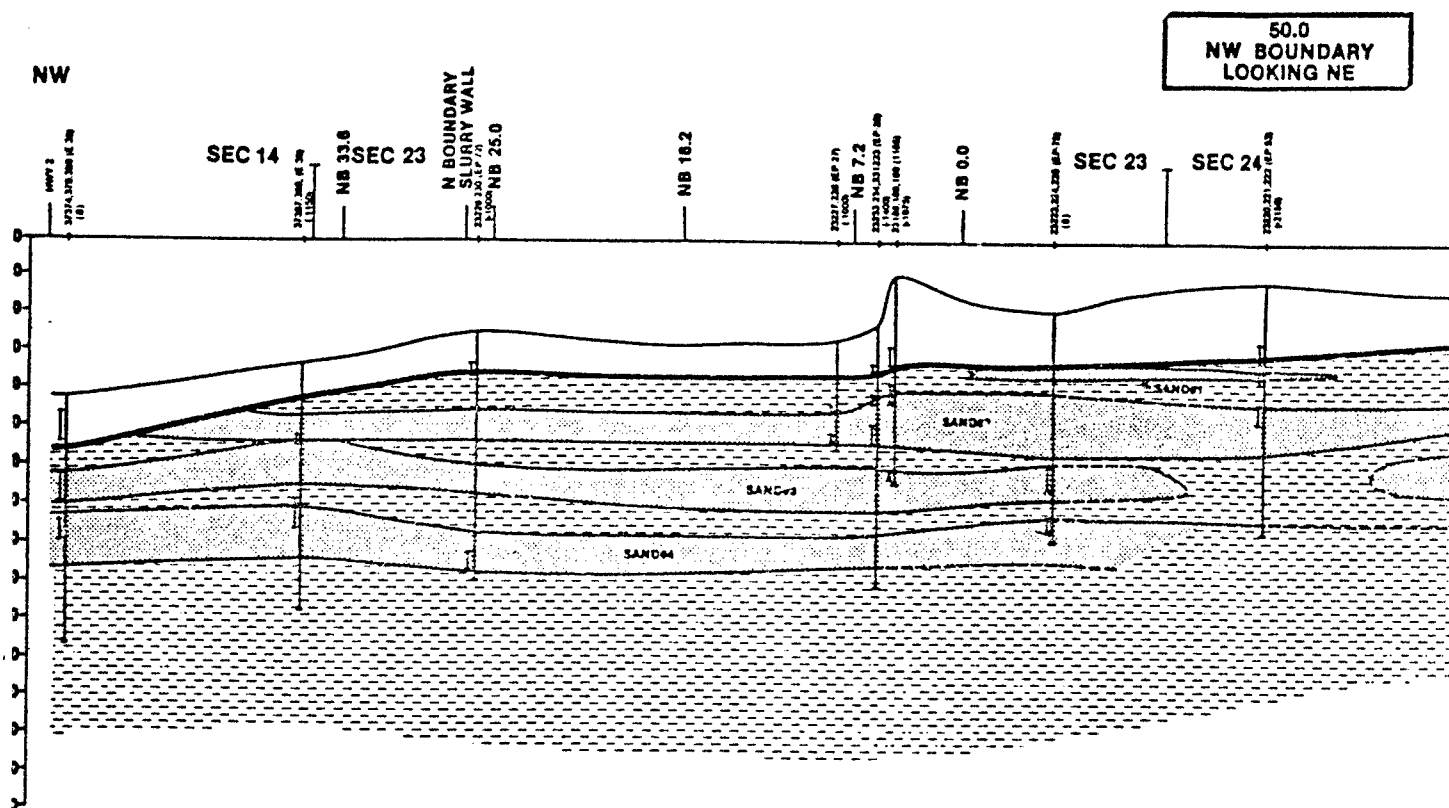
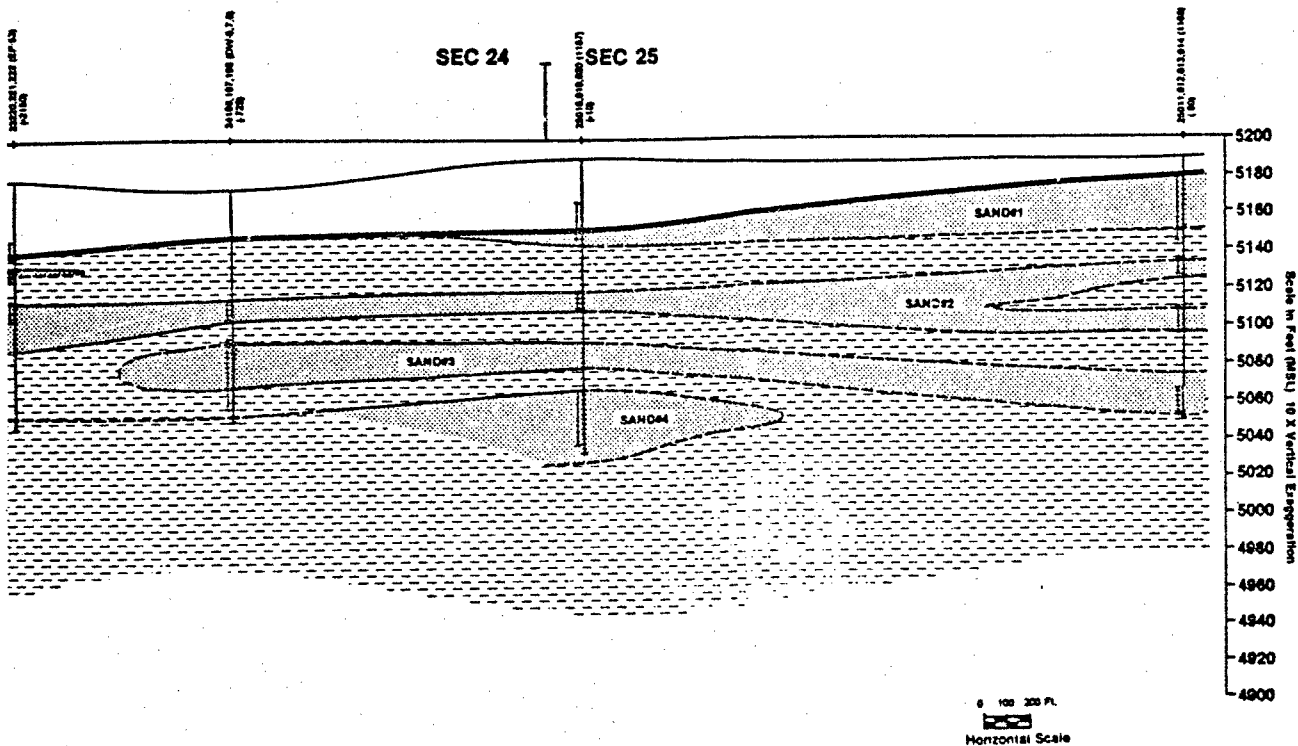


Figure B-9
NORTHWEST BOUNDARY CROSS SECTION 50.0

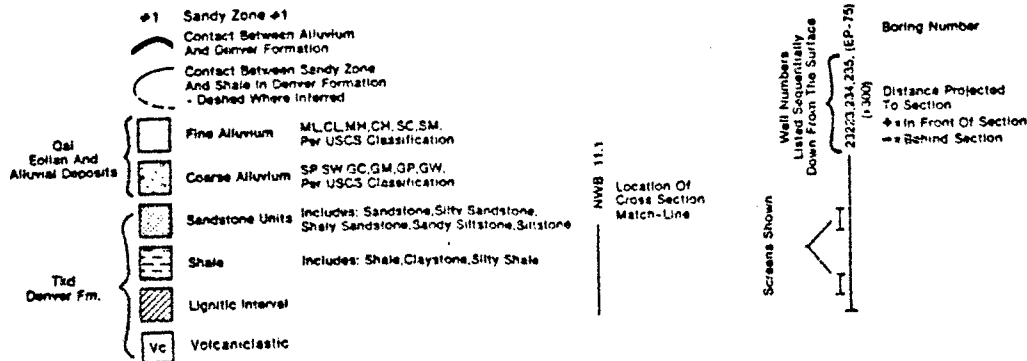
SOURCE: ESE, 1988

50.0
BOUNDARY
KING NE

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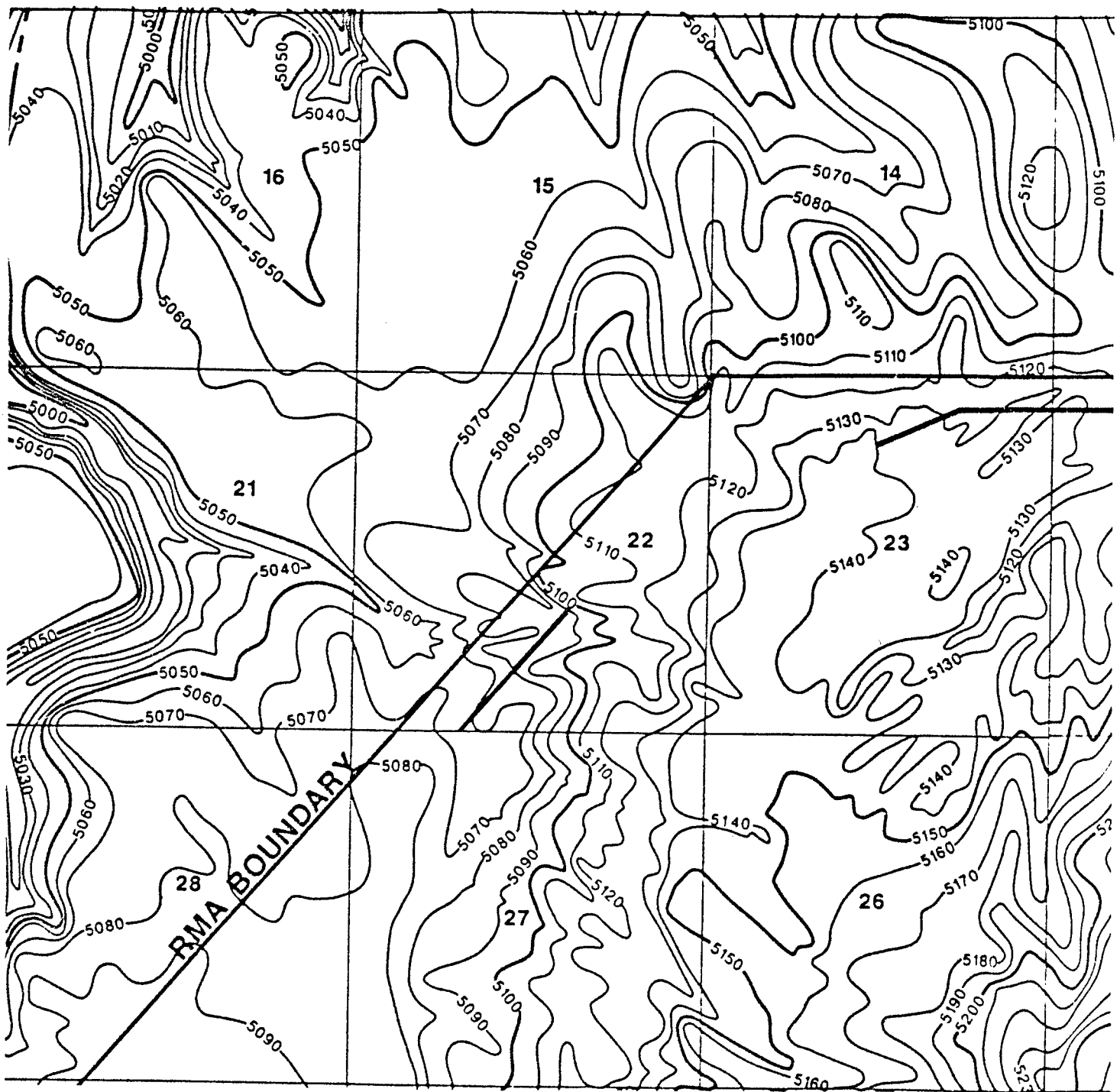
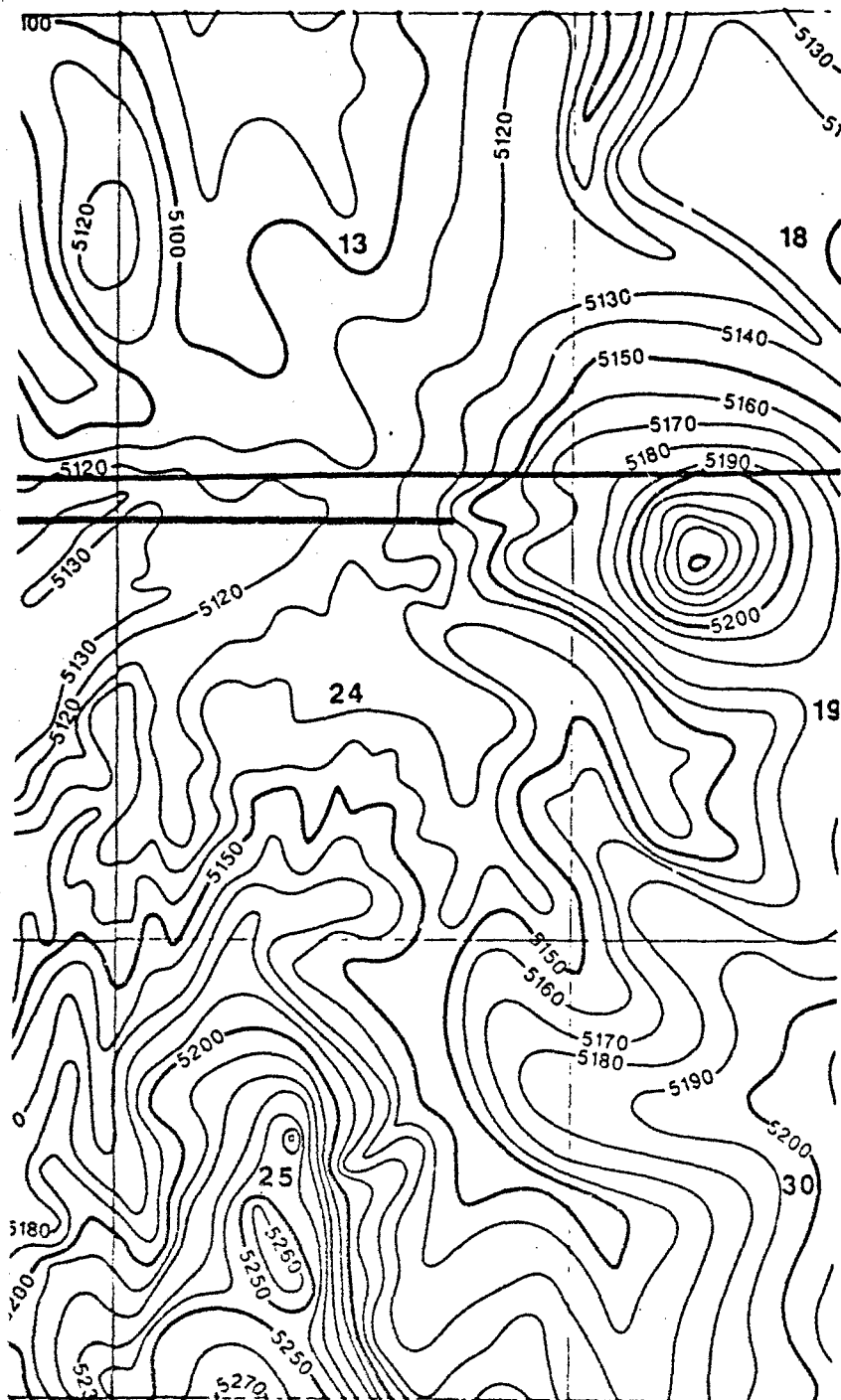


Figure B-10
CONTOUR MAP TOP OF THE DENVER FORMATION

SOURCE: ESE, 1988



EXPLANATION

CI: 10'



0 1000 2000
Scale in Feet

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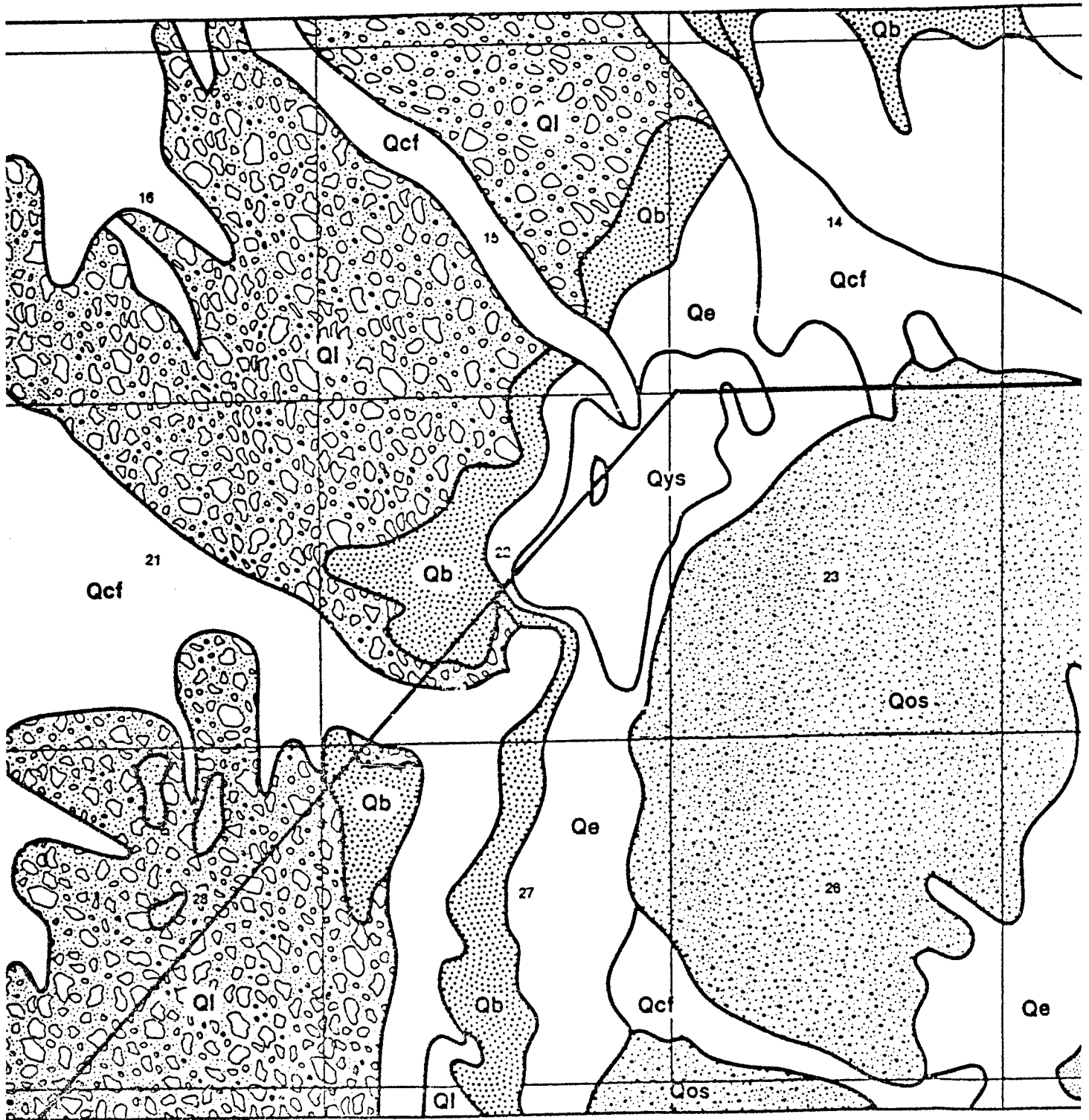
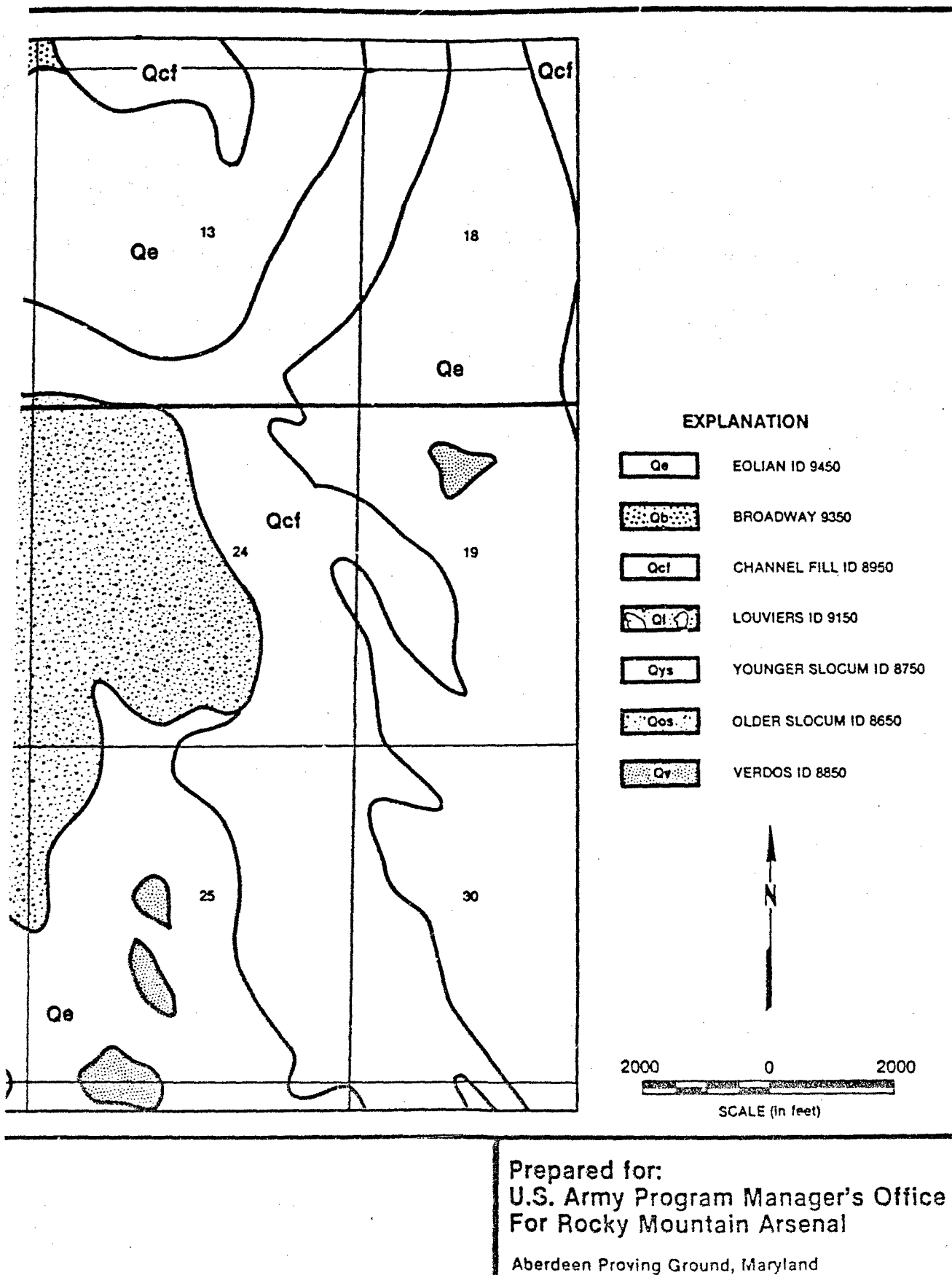


Figure B-11
QUATERNARY SEDIMENTS IN CONTACT WITH BEDROCK

SOURCE: MKE, 1988



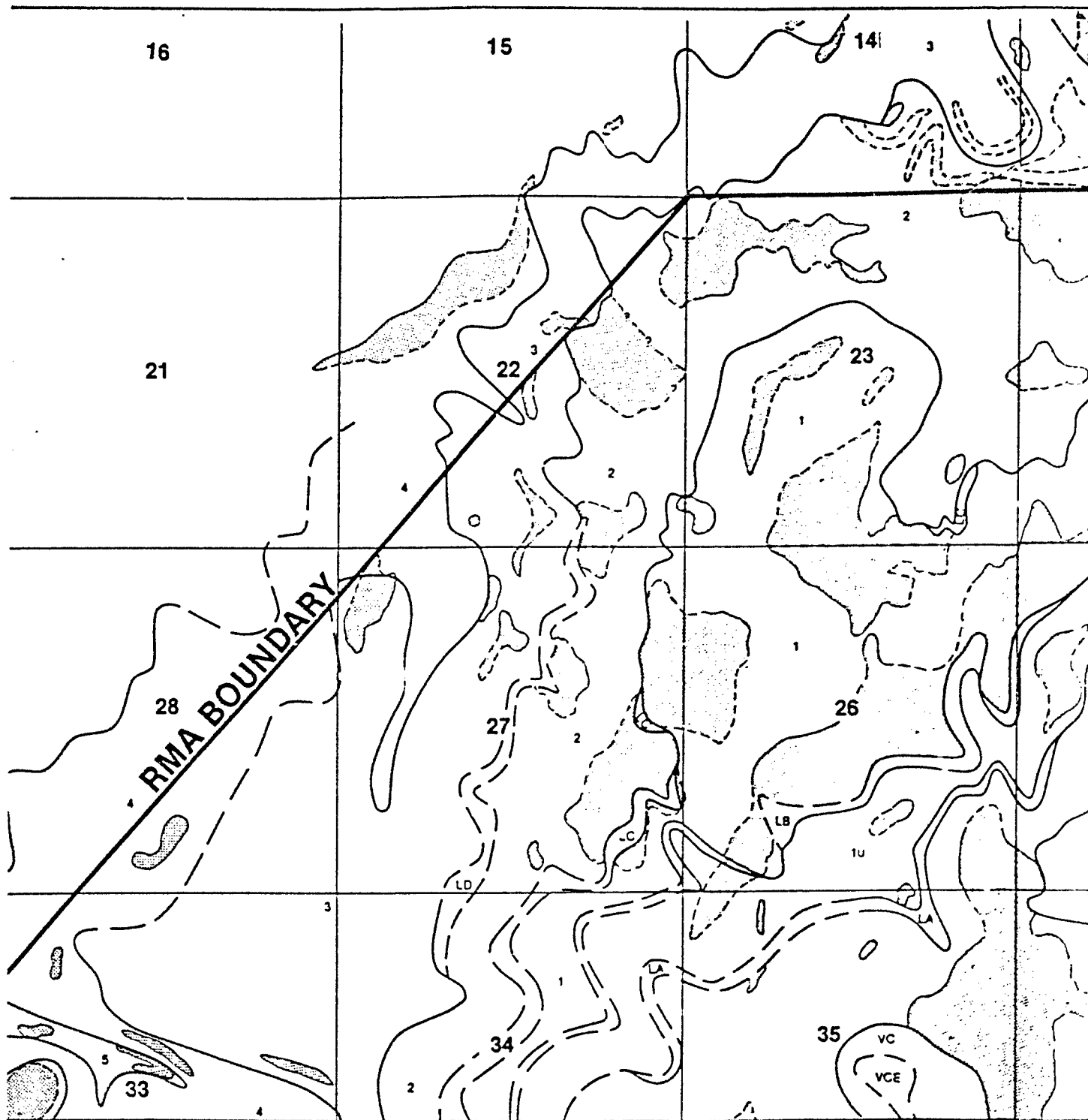
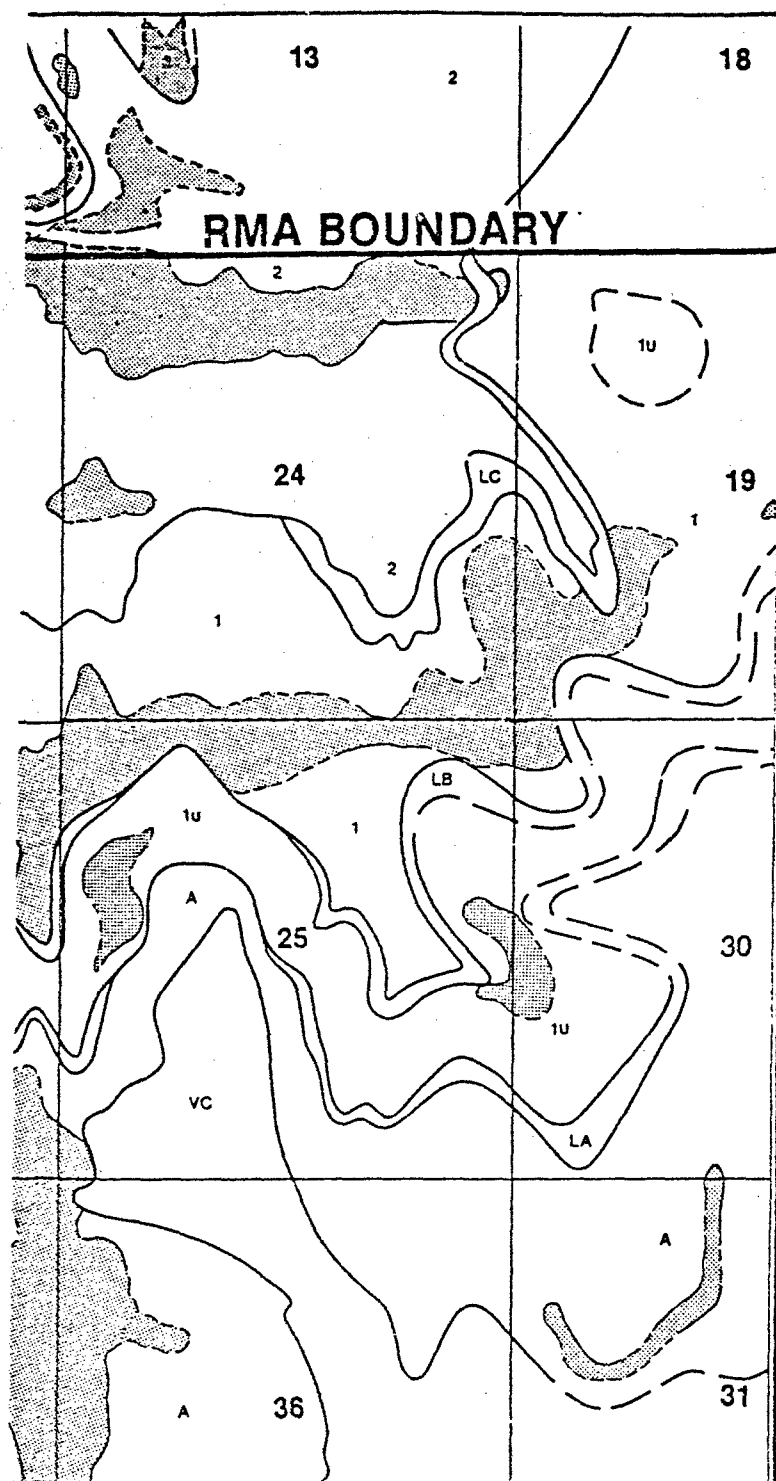


Figure B-12
INVER FORMATION SUBCROP MAP

SOURCE: ESE, 1988



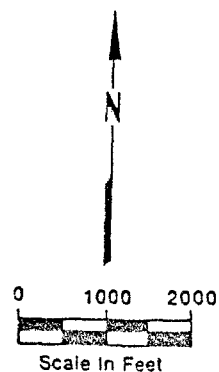
EXPLANATION

SANDSTONE SUBCROP —
DASHED WHERE
INFERRED FROM
CROSS SECTIONS

DENVER ZONE CONTACT —
DASHED WHERE
INFERRED

VC/VCE — VOLCANICLASTIC/
VOLCANICLASTIC EQUIVALENT

A	SAND ZONE A
LA	LIGNITE A
1u	SAND ZONE 1u
LB	LIGNITE B
1	SAND ZONE 1
LC	LIGNITE C
2	SAND ZONE 2
3	SAND ZONE 3
4	SAND ZONE 4
LD	LIGNITE D
5	SAND ZONE 5

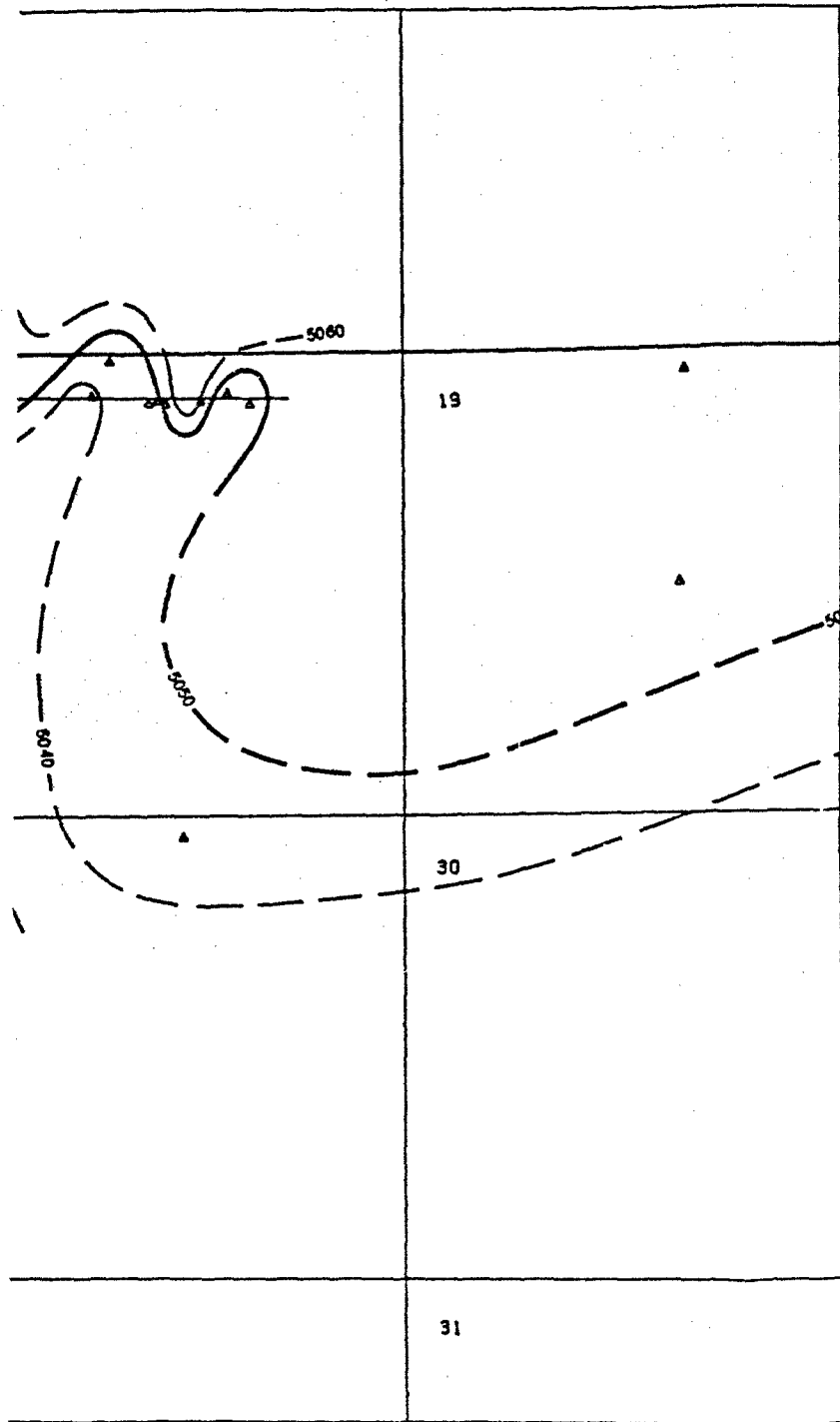


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


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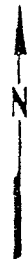


Figure B-13
IASE ELEVATION CONTOUR MAP
DENVER FORMATION SAND ZONE 4



EXPLANATION

-  SUBCROP
-  ELEVATION CONTOUR IN FEET (MSL)
-  ELEVATION INFERRED
-  BORING LOCATION



0 1000 2000
Scale in Feet

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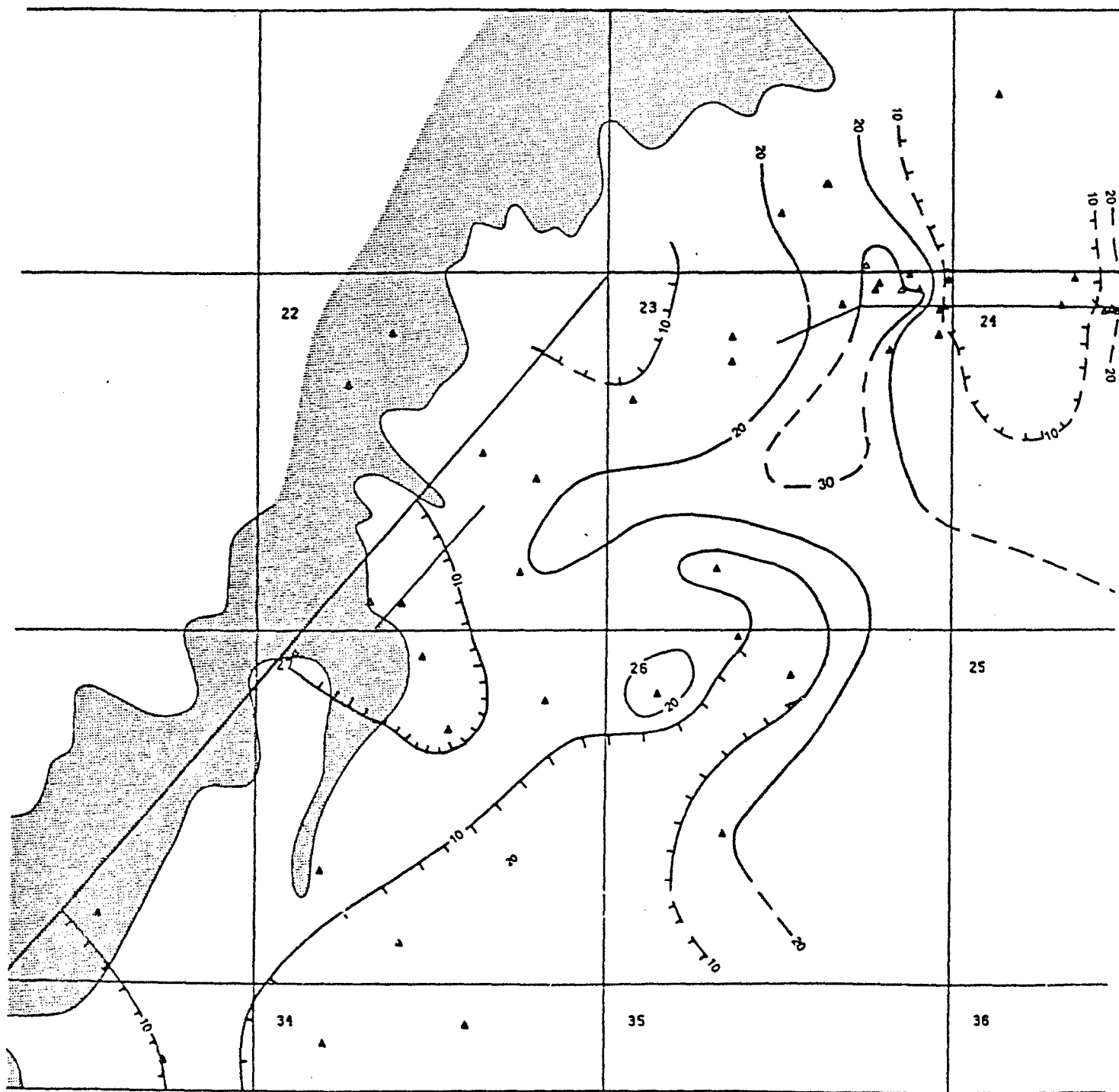
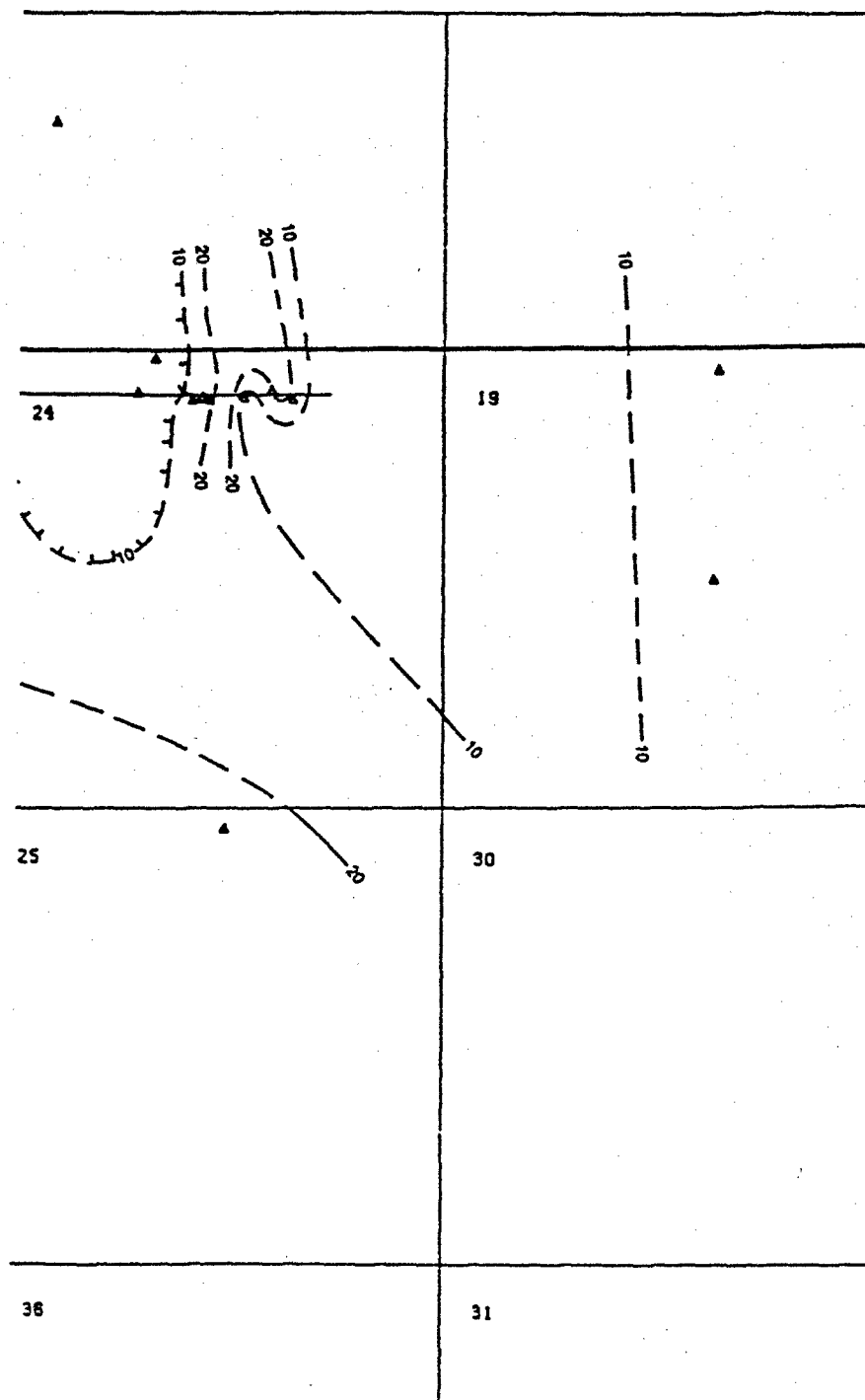


Figure B-14
 NET SAND ISOPACH CONTOUR MAP
 DENVER FORMATION SAND ZONE 4

SOURCE: ESE, 1988



EXPLANATION



SUBCROP



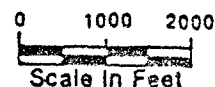
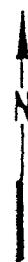
ISOPACH CONTOUR (FEET)



ISOPACH INFERRED



BORING LOCATION



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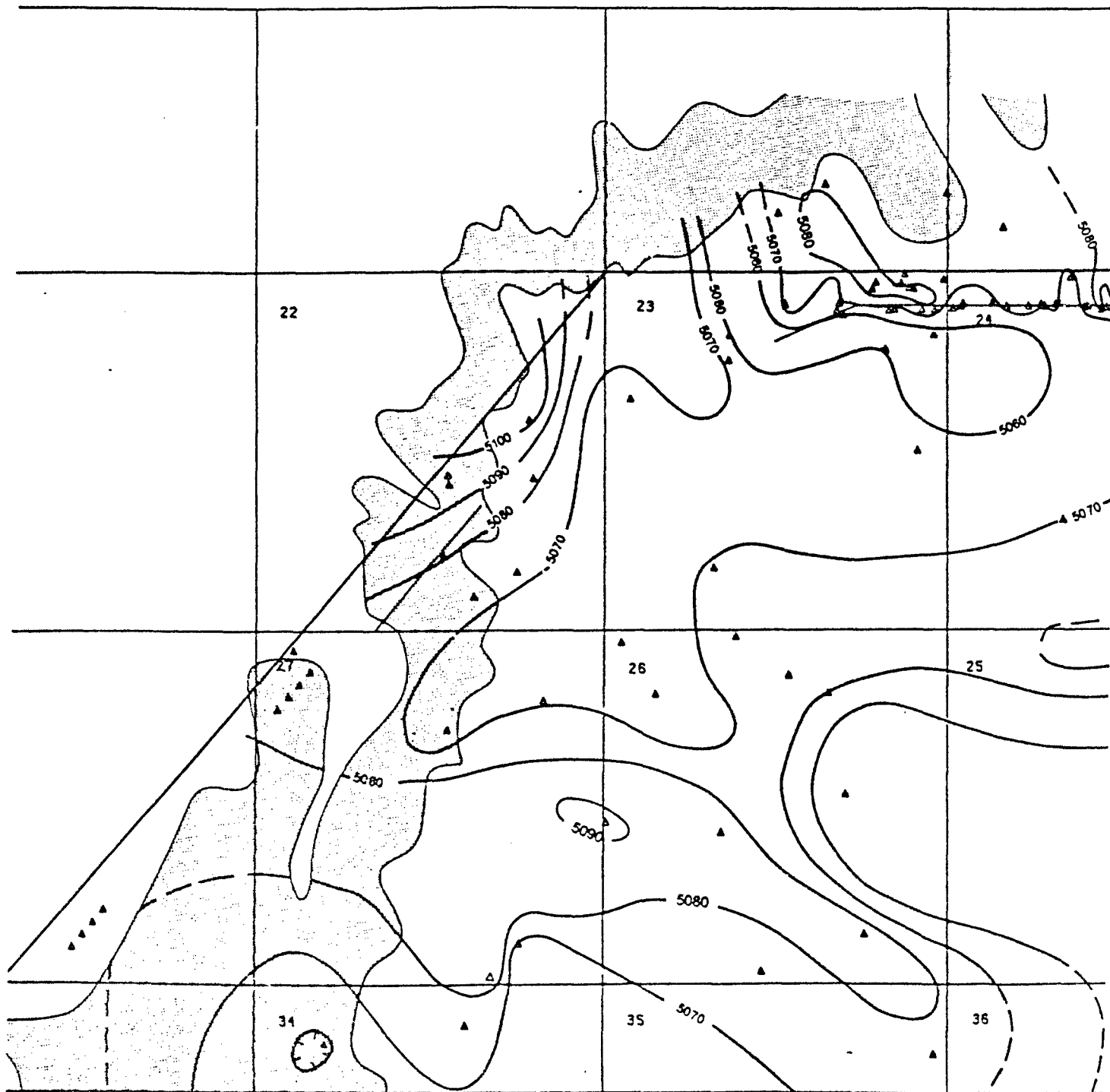
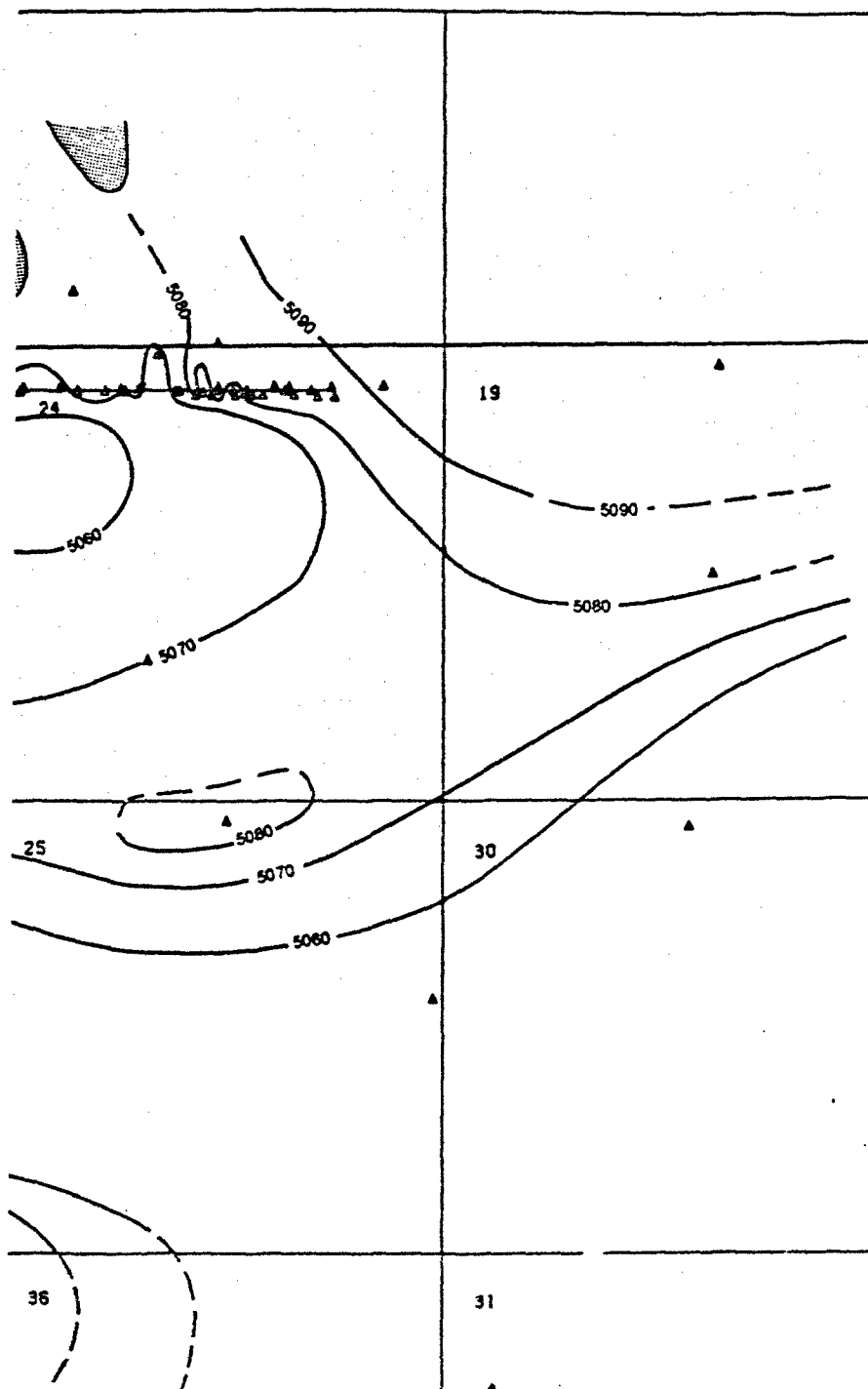


Figure B-15
BASE ELEVATION CONTOUR MAP
DENVER FORMATION SAND ZONE 3

SOURCE: ESE, 1988



EXPLANATION



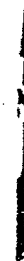
SUBCROP

5040' ELEVATION CONTOUR IN
FEET (MSL)

5040' ELEVATION INFERRED



BORING LOCATION



0 1000 2000

Scale in Feet

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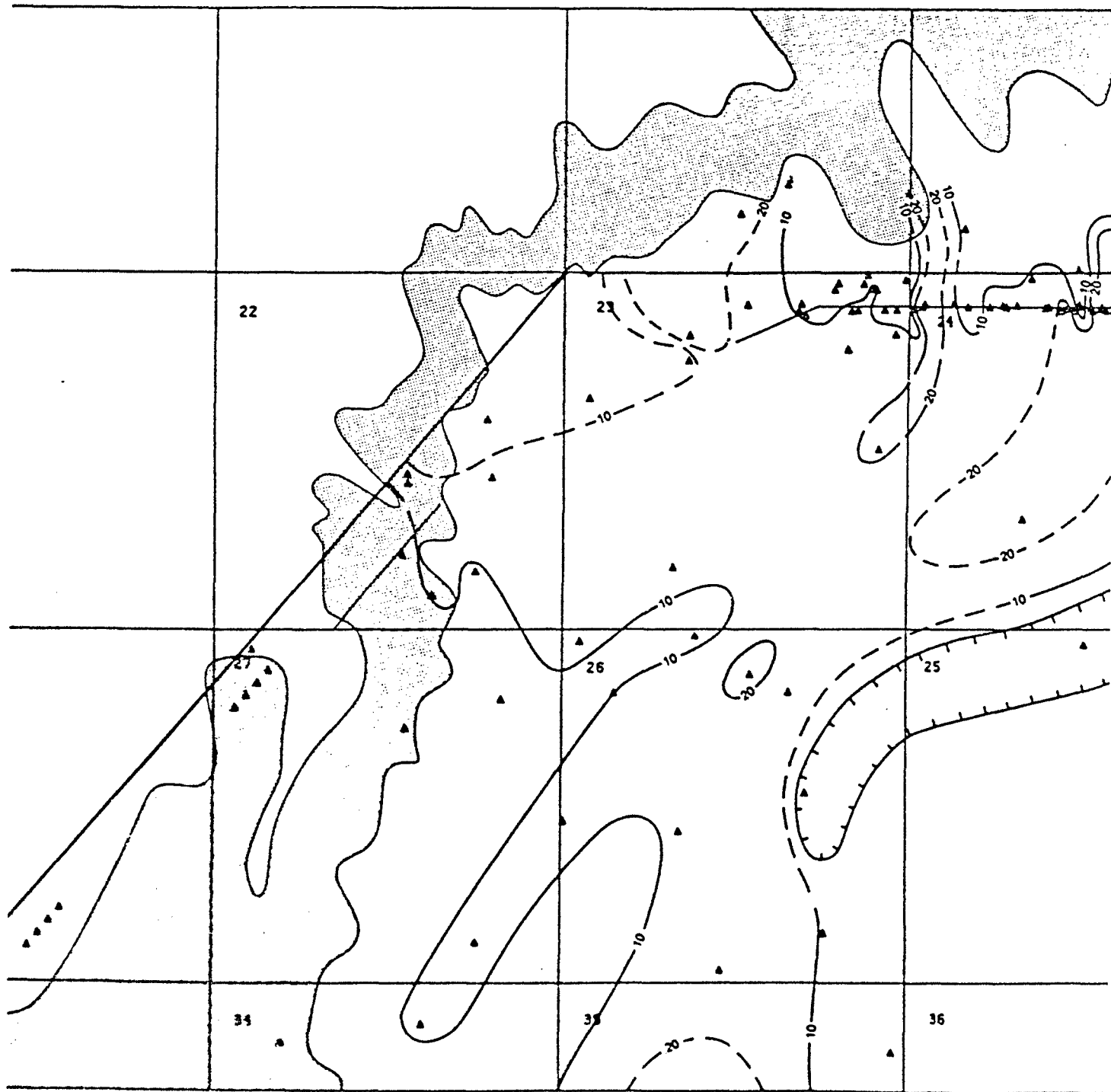
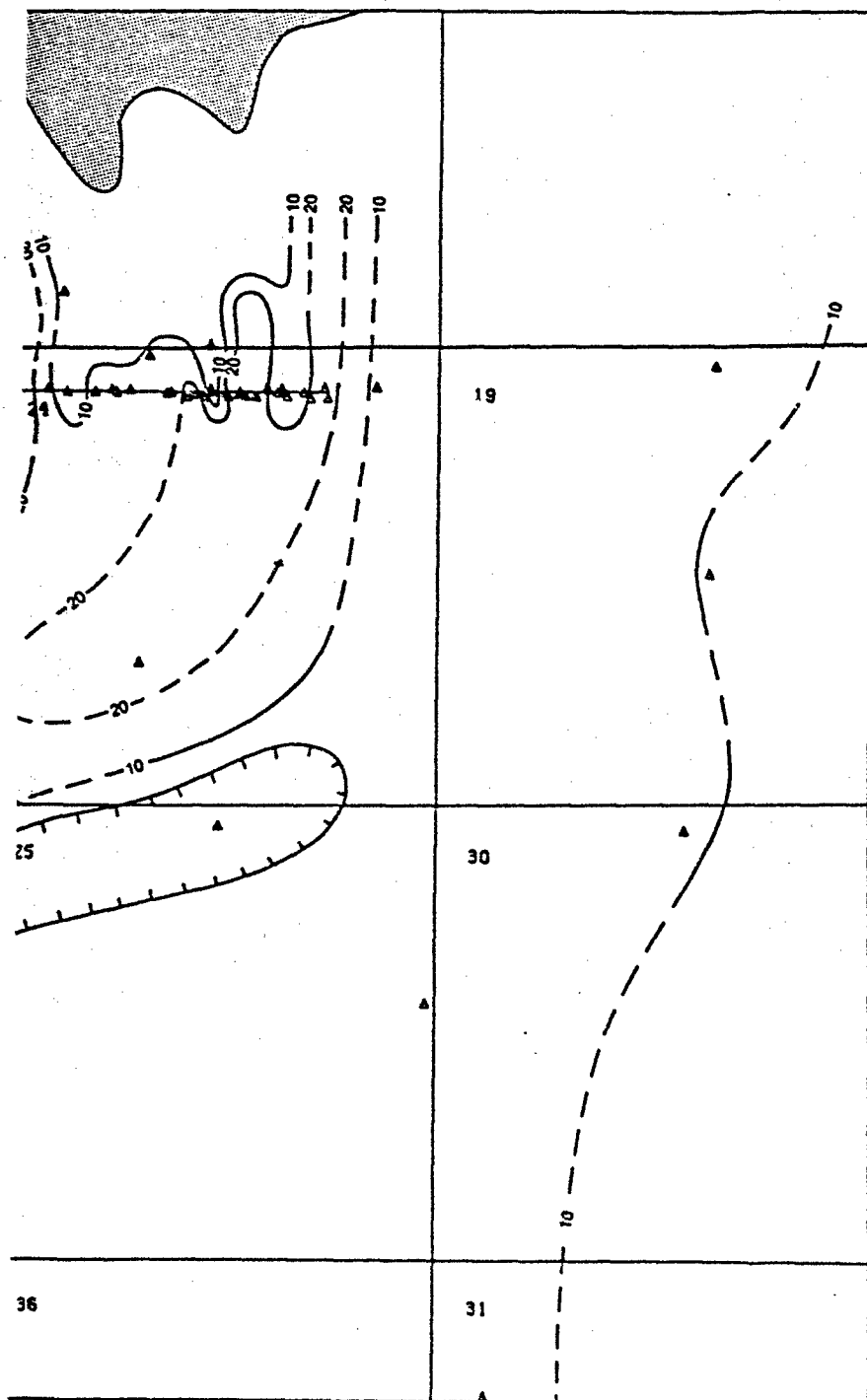






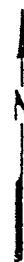
Figure B-16
SAND ISOPACH CONTOUR MAP
VER FORMATION SAND ZONE 3

DECEMBER, 1968



EXPLANATION

-  SUBCROP
-  10 ISOPACH CONTOUR (FEET)
-  10 ISOPACH INFERRED
-  BORING LOCATION



0 1000 2000
Scale In Feet

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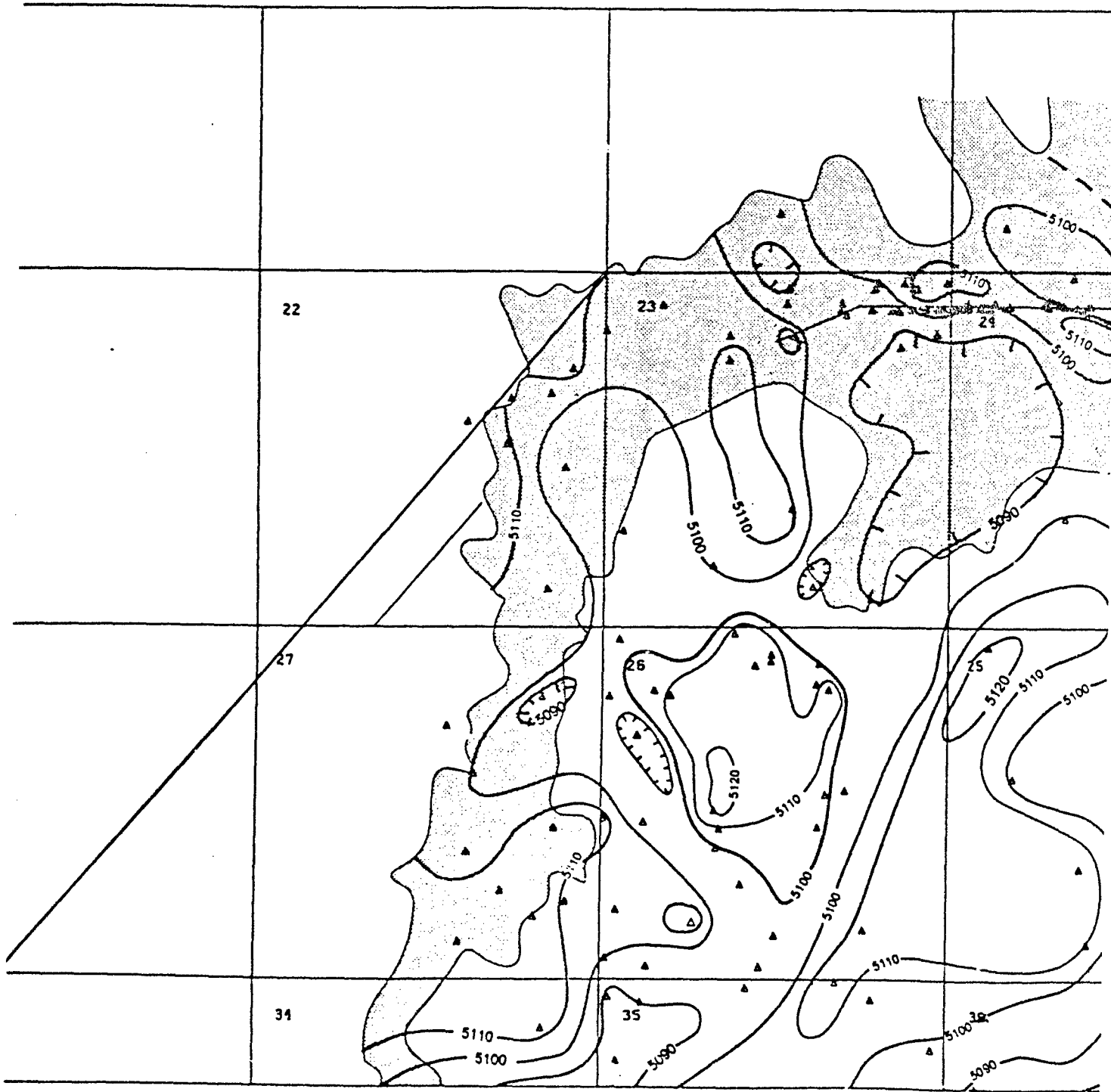
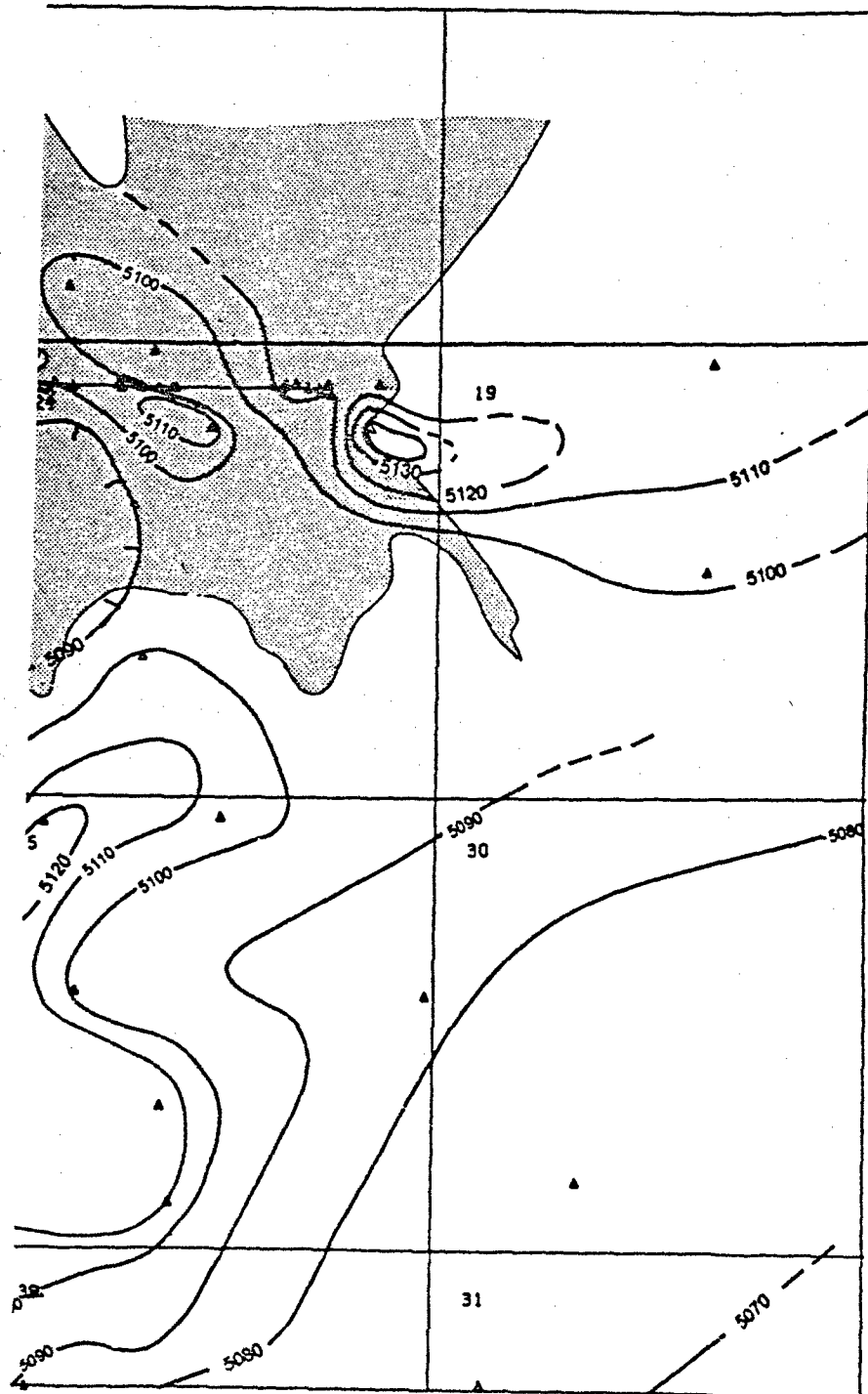


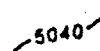
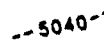
Figure B-17
BASE ELEVATION CONTOUR MAP
DENVER FORMATION SAND ZONE 2



EXPLANATION



SUBCROP

ELEVATION CONTOUR IN
FEET (MSL)

ELEVATION INFERRED



BORING LOCATION



Scale in Feet

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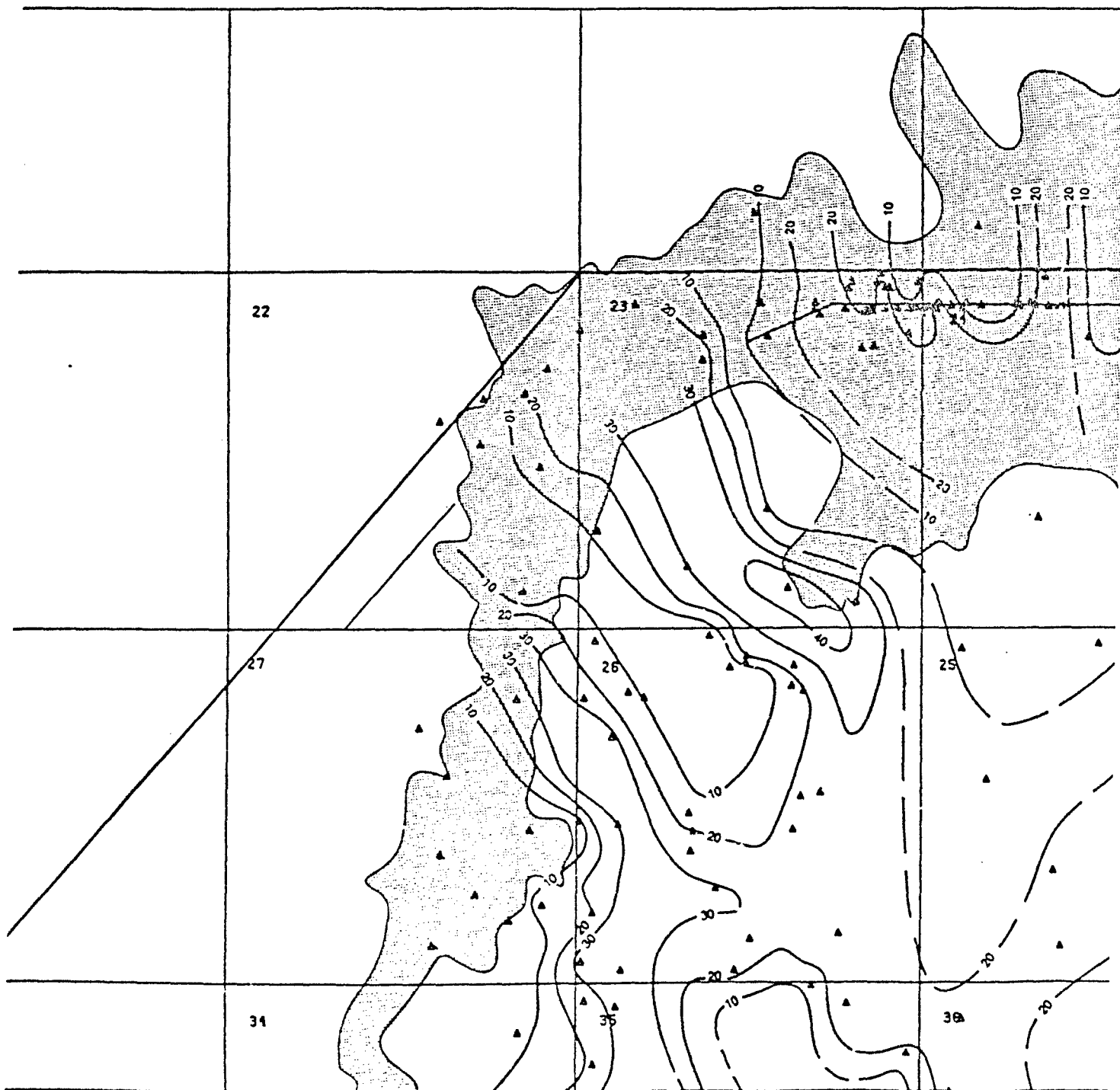
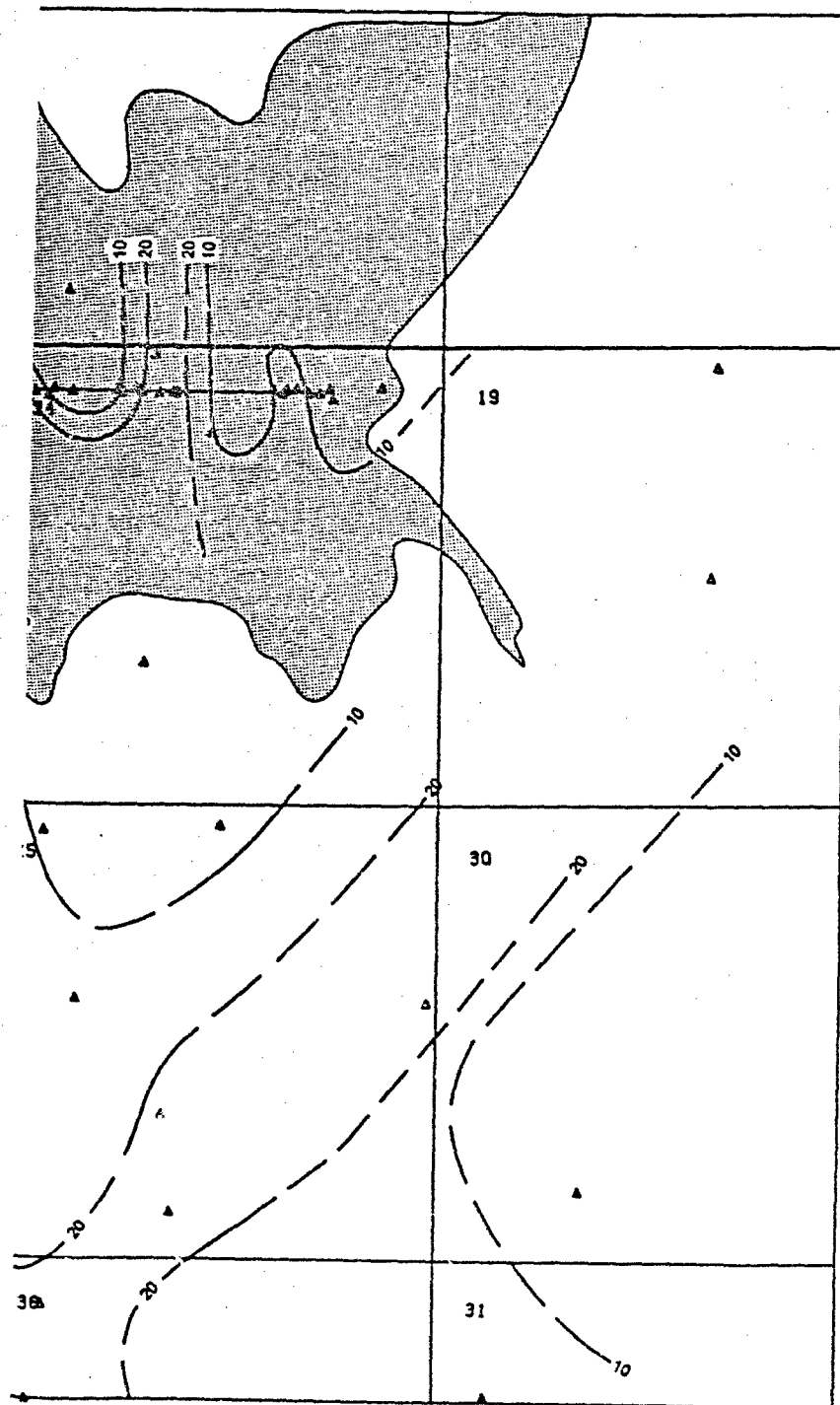


Figure B-18
SAND ISOPACH CONTOUR MAP
RIVER FORMATION SAND ZONE 2

CE-FSE 1988



EXPLANATION



SUBCROP



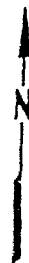
ISOPACH CONTOUR (FEET)



ISOPACH INFERRED



BORING LOCATION



0 1000 2000
Scale in Feet

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For Rocky Mountain Arsenal

Abandon Boring Ground, Maryland

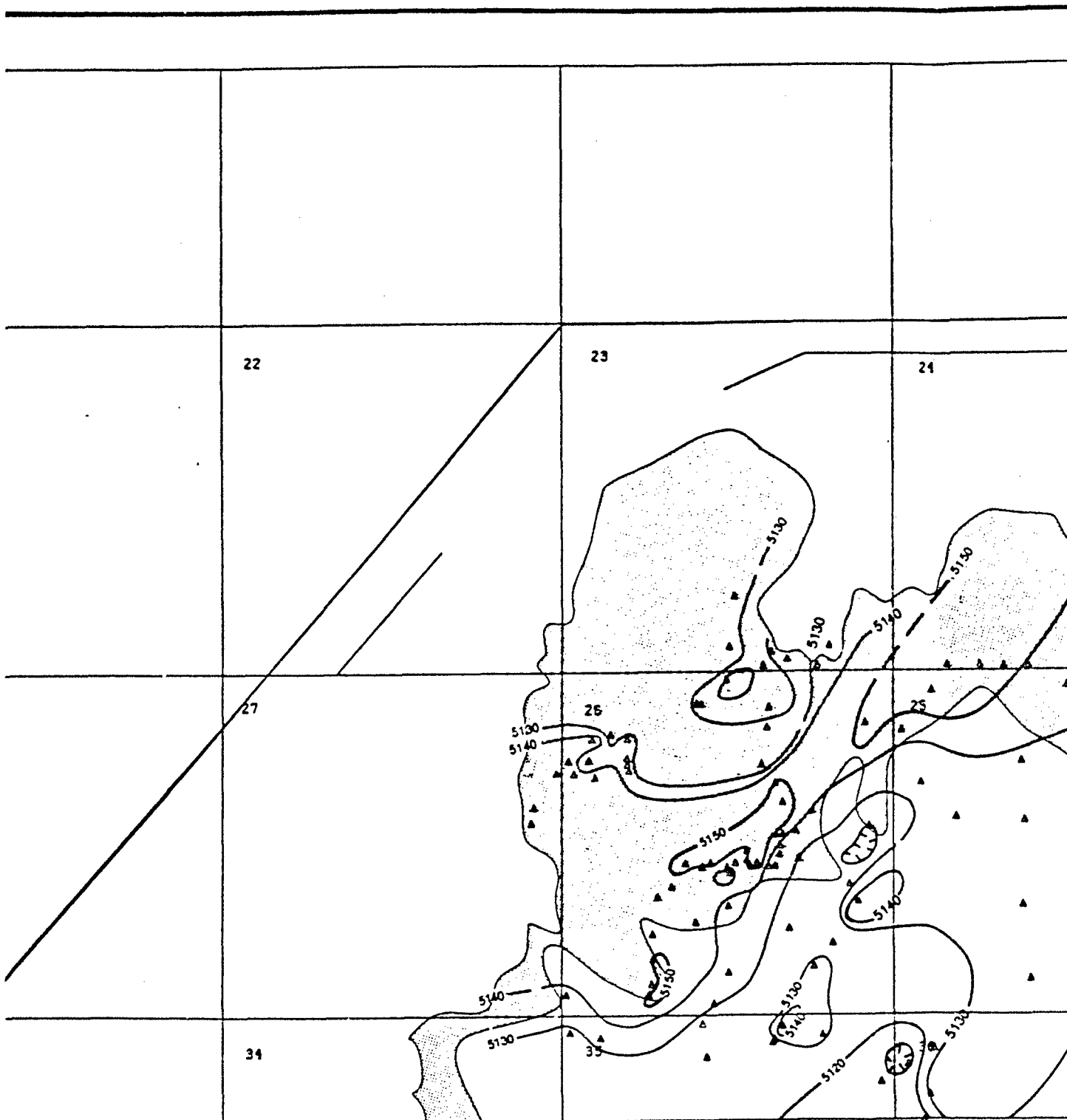
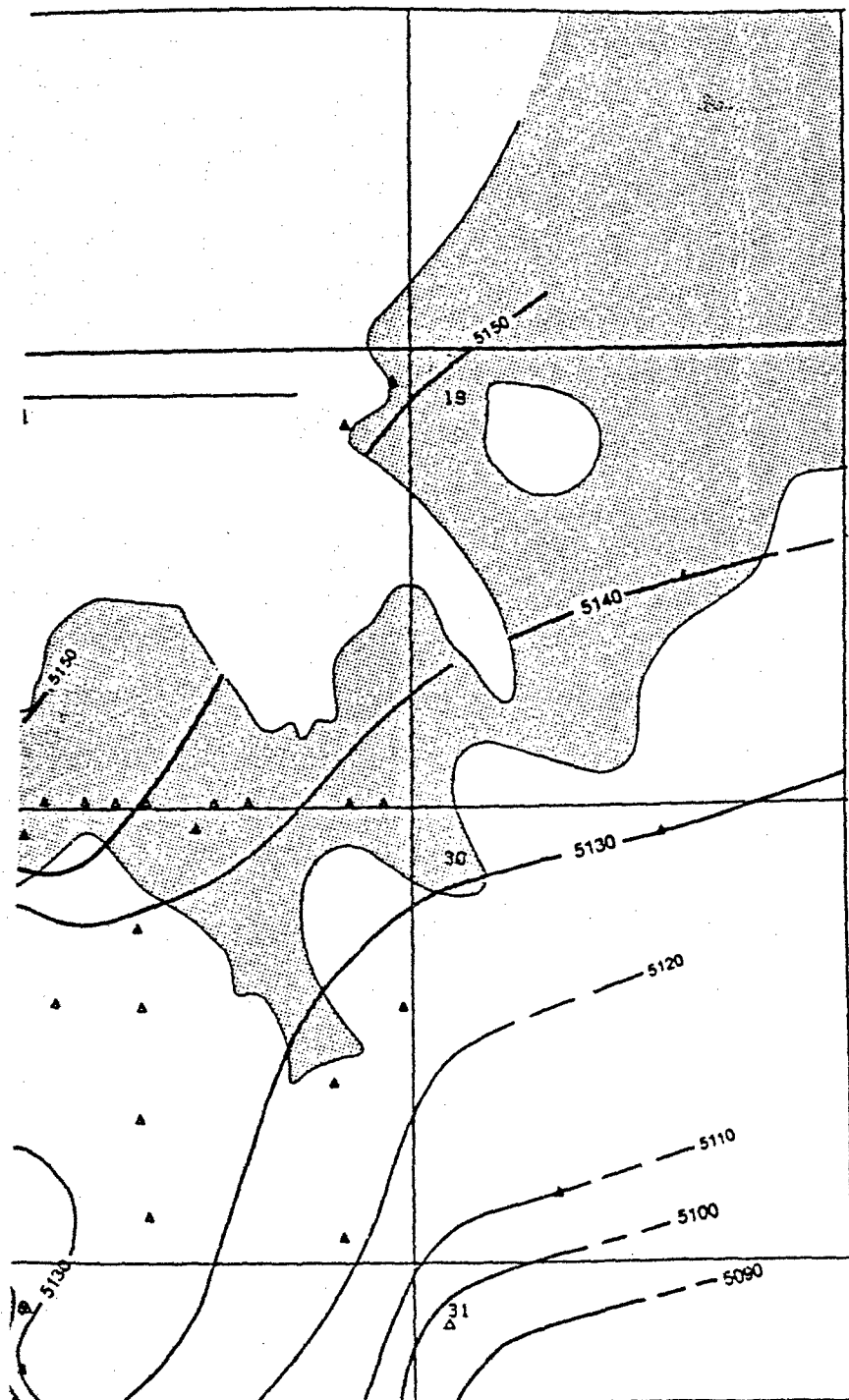


Figure B-19
BASE ELEVATION CONTOUR MAP
INVER FORMATION SAND ZONE 1

JRCE:ESE, 1988



EXPLANATION



SUBCROP

— 5040 — ELEVATION CONTOUR IN FEET (MSL)

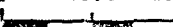
- - - 5040 - - ELEVATION INFERRED



BORING LOCATION



0 1000 2000



Scale in Feet

Prepared for:
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For Rocky Mountain Arsenal

Shannon Bowling Ground, Maryland

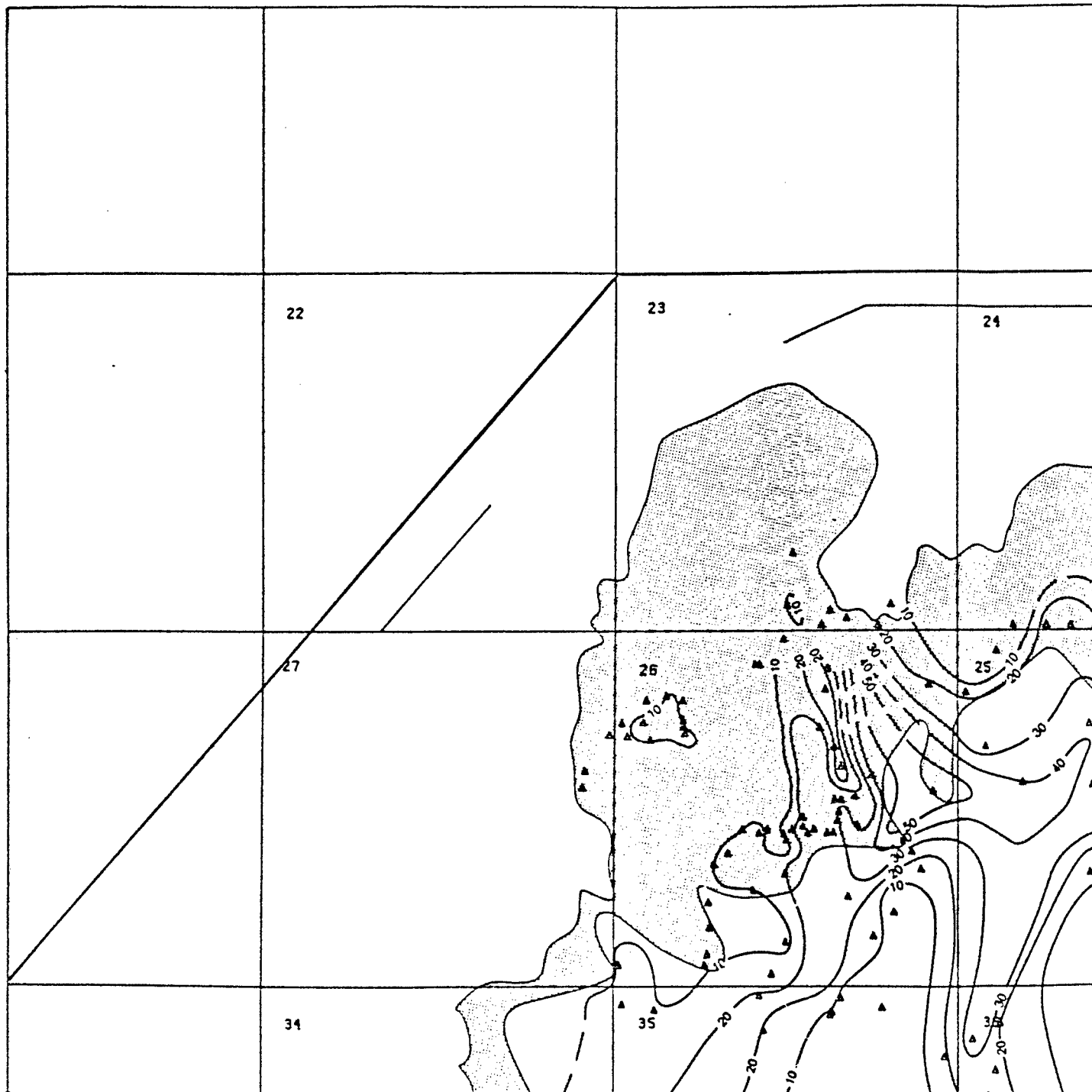
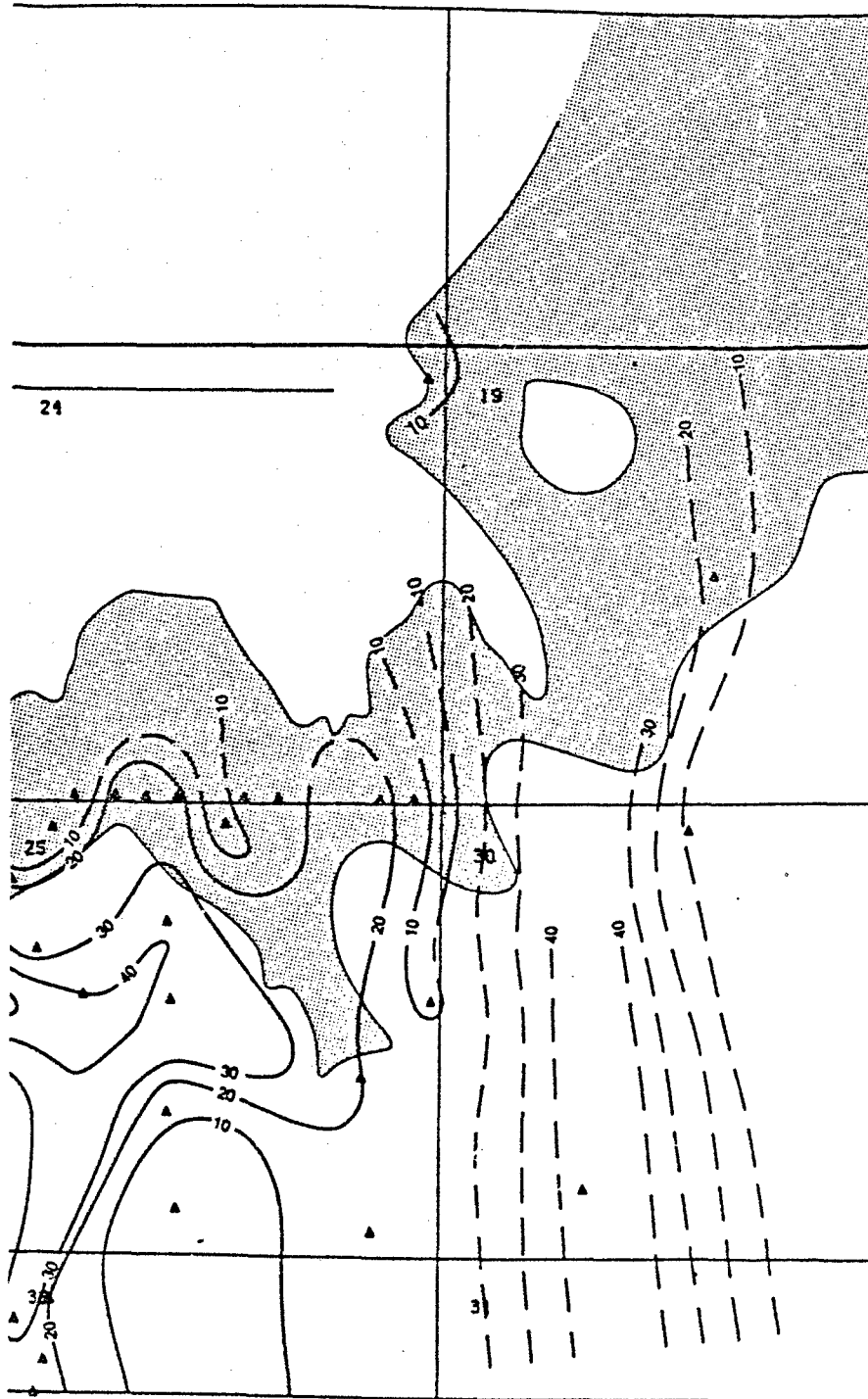


Figure B-20
NET SAND ISOPACH CONTOUR MAP
DENVER FORMATION SAND ZONE 1



EXPLANATION

- SUBCROP
- ISOPACH CONTOUR (FEET)
- ISOPACH INFERRED
- BORING LOCATION



0 1000 2000
Scale in Feet

Prepared for:
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For Rocky Mountain Arsenal

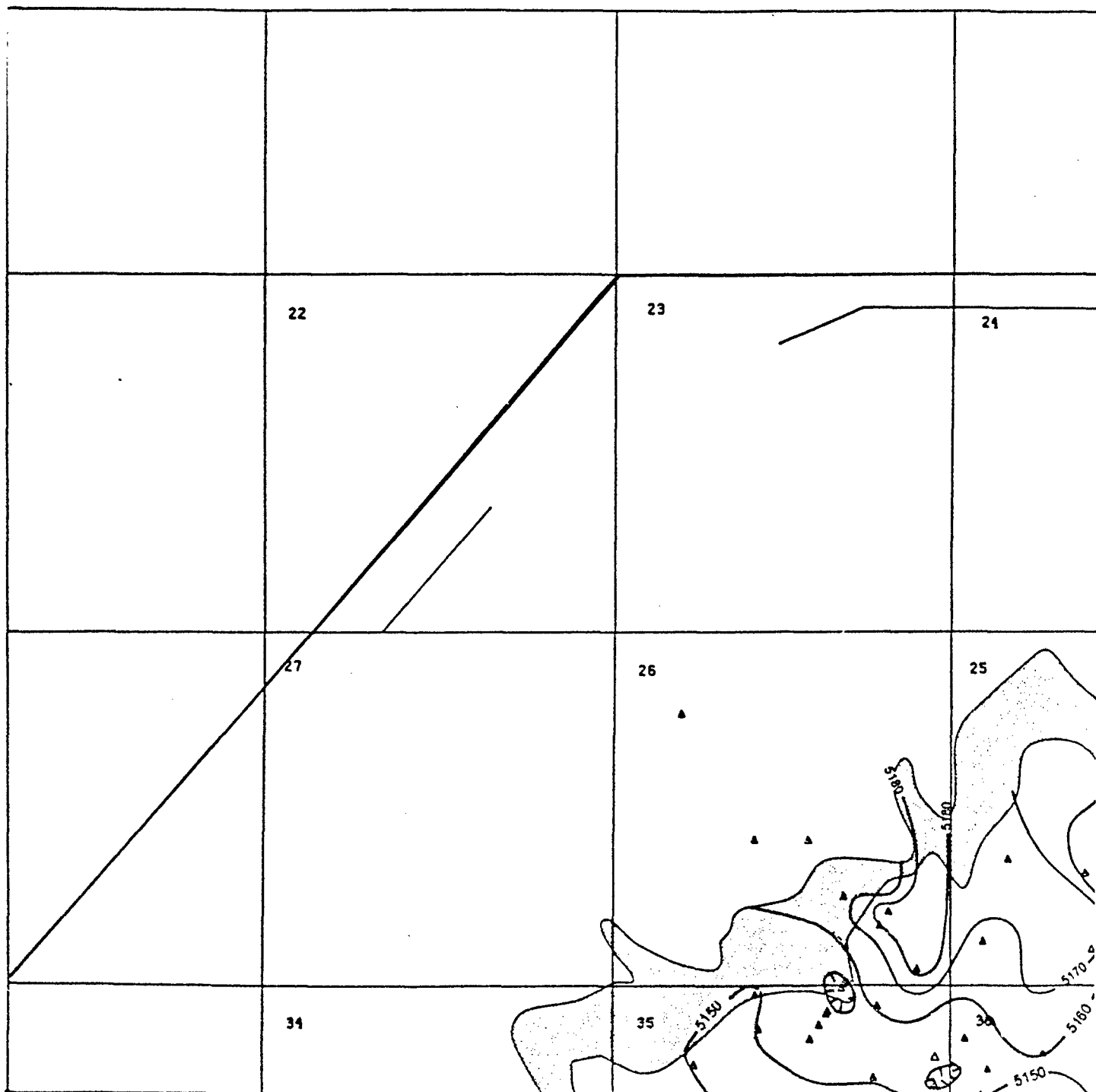
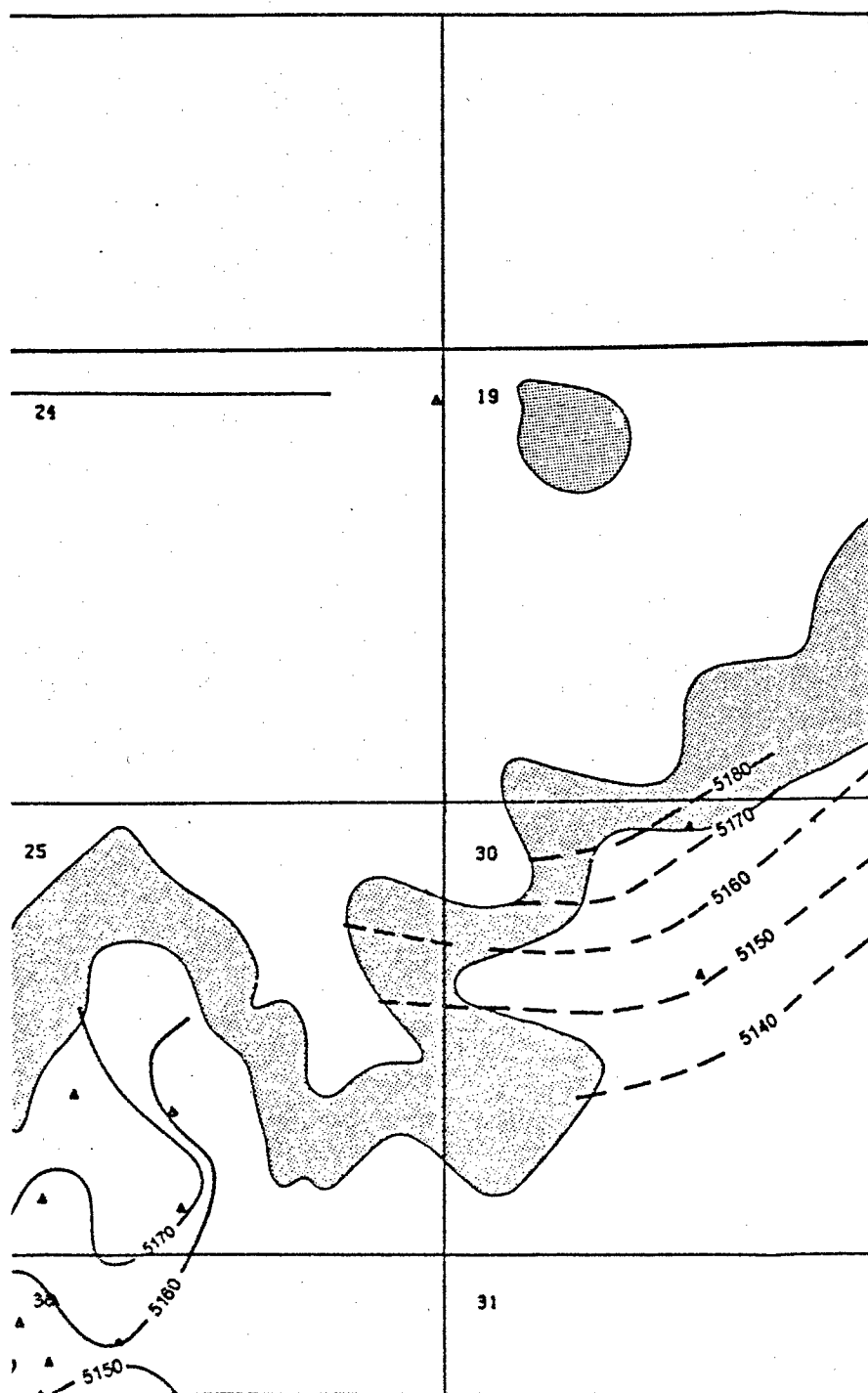






Figure B-21
BASE ELEVATION CONTOUR MAP
DENVER FORMATION SAND ZONE 1U

SOURCE: ESE, 1988



EXPLANATION

-  SUBCROP
-  5040 ELEVATION CONTOUR IN FEET (MSL)
-  5040 ELEVATION INFERRED
-  BORING LOCATION



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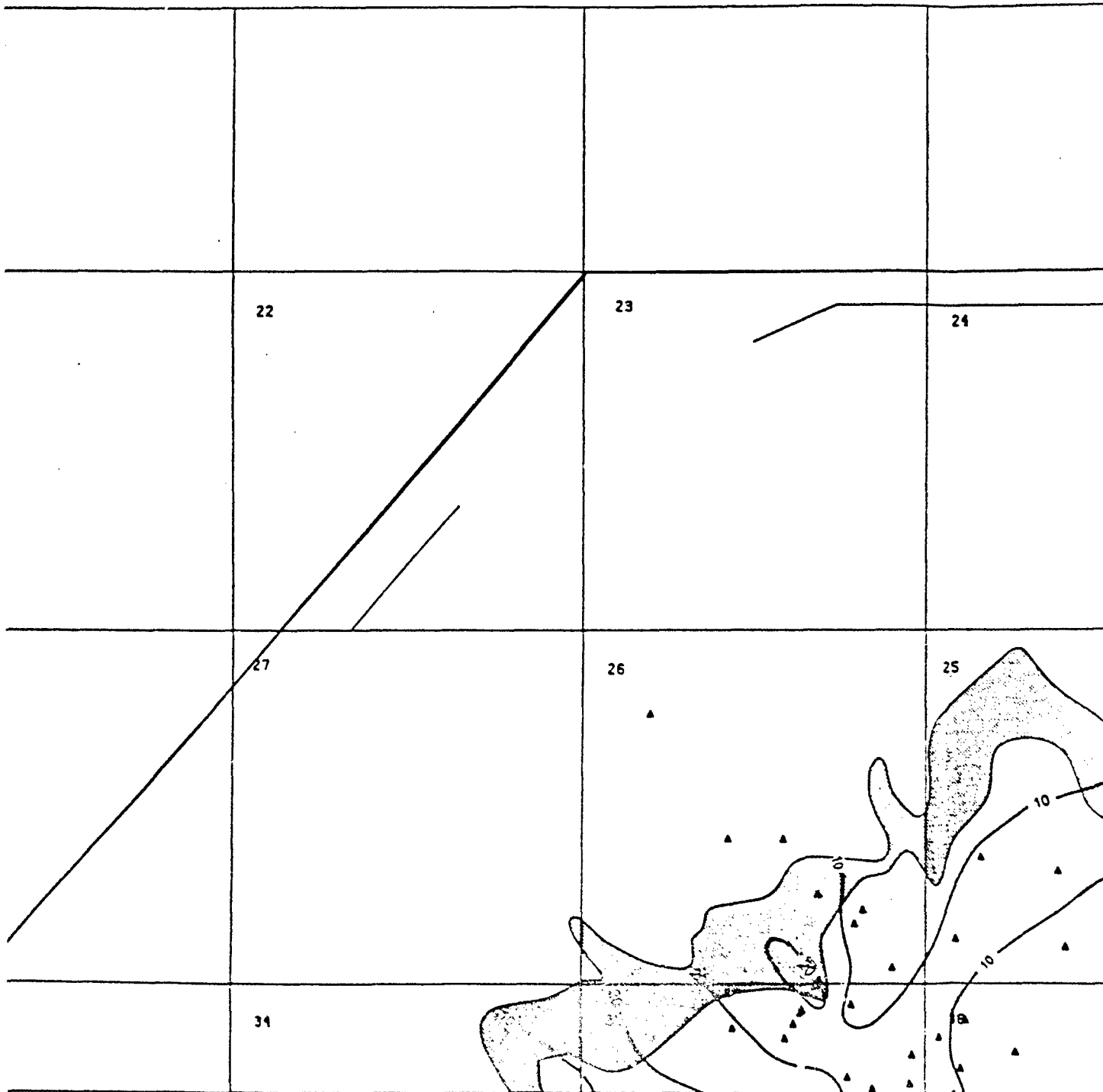
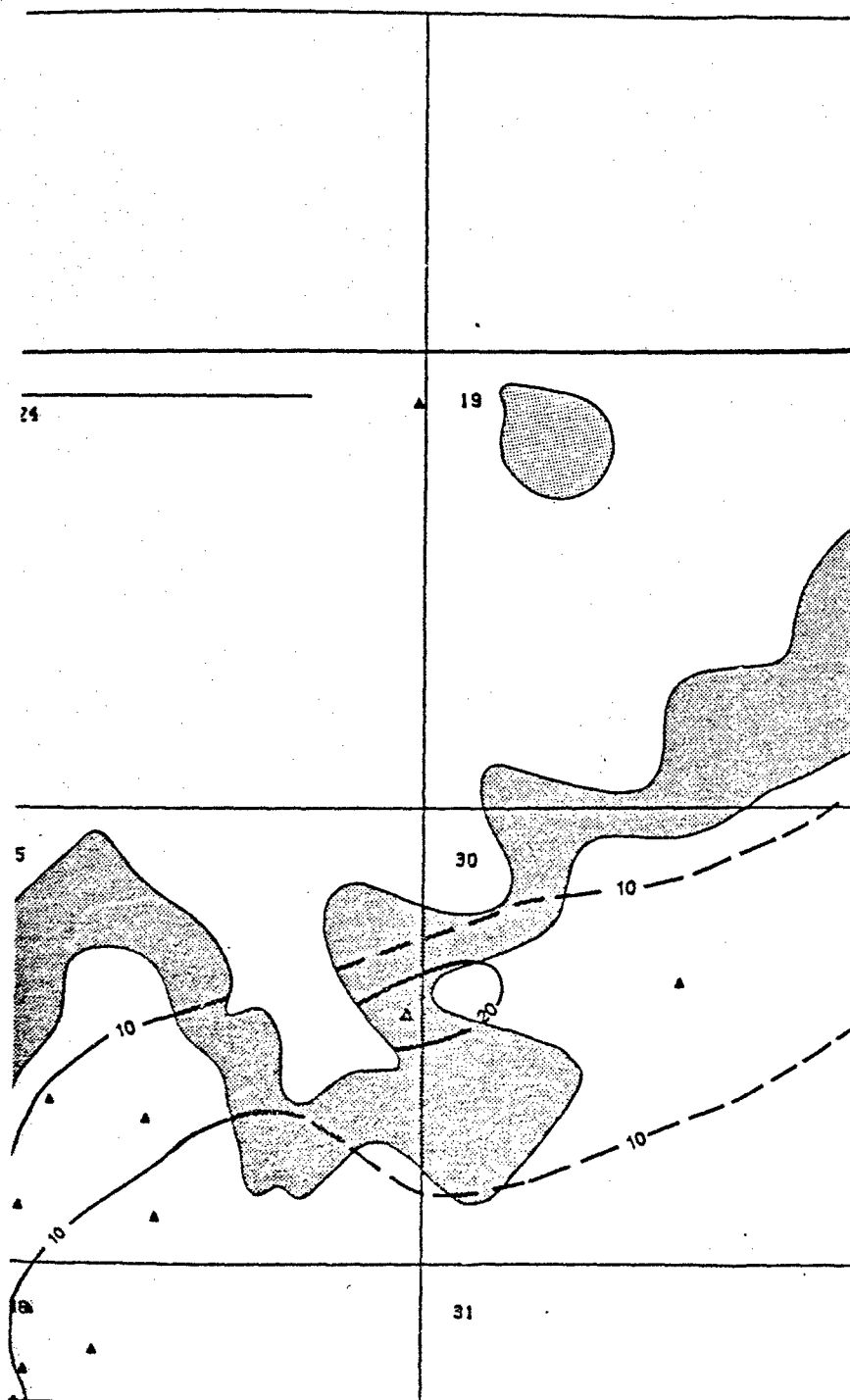


Figure B-22
 ET SAND ISOPACH CONTOUR MAP
 DENVER FORMATION SAND ZONE 1U



EXPLANATION



SUBCROP



10 ISOPACH CONTOUR (FEET)



10 ISOPACH INFERRED



BORING LOCATION

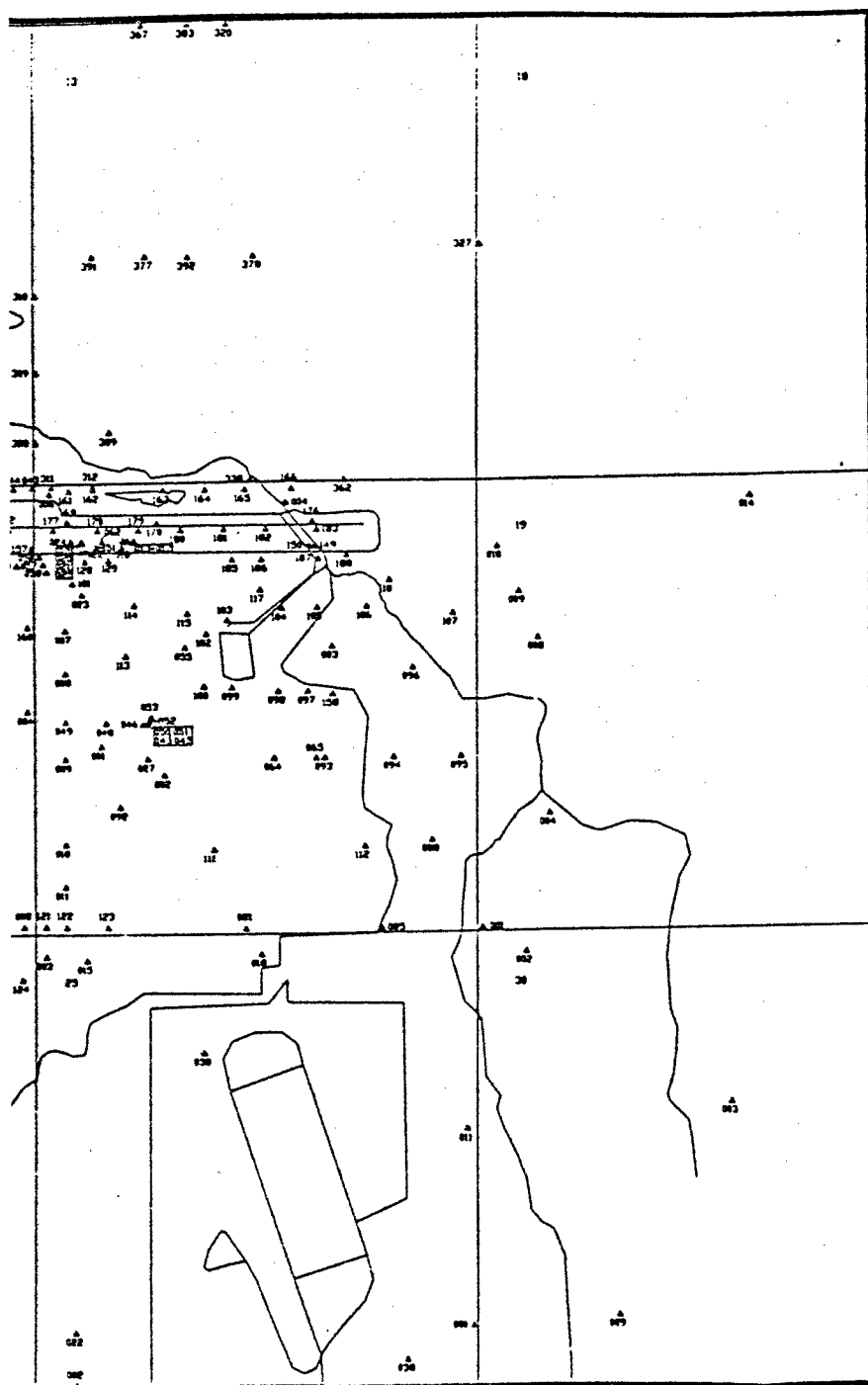


0 1000 2000

Scale in Feet

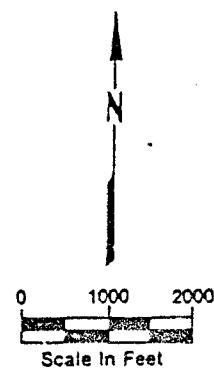
Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal





EXPLANATION

△ WELL MONITORED FOR WATER LEVELS



Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

Aberdeen Proving Ground, Maryland

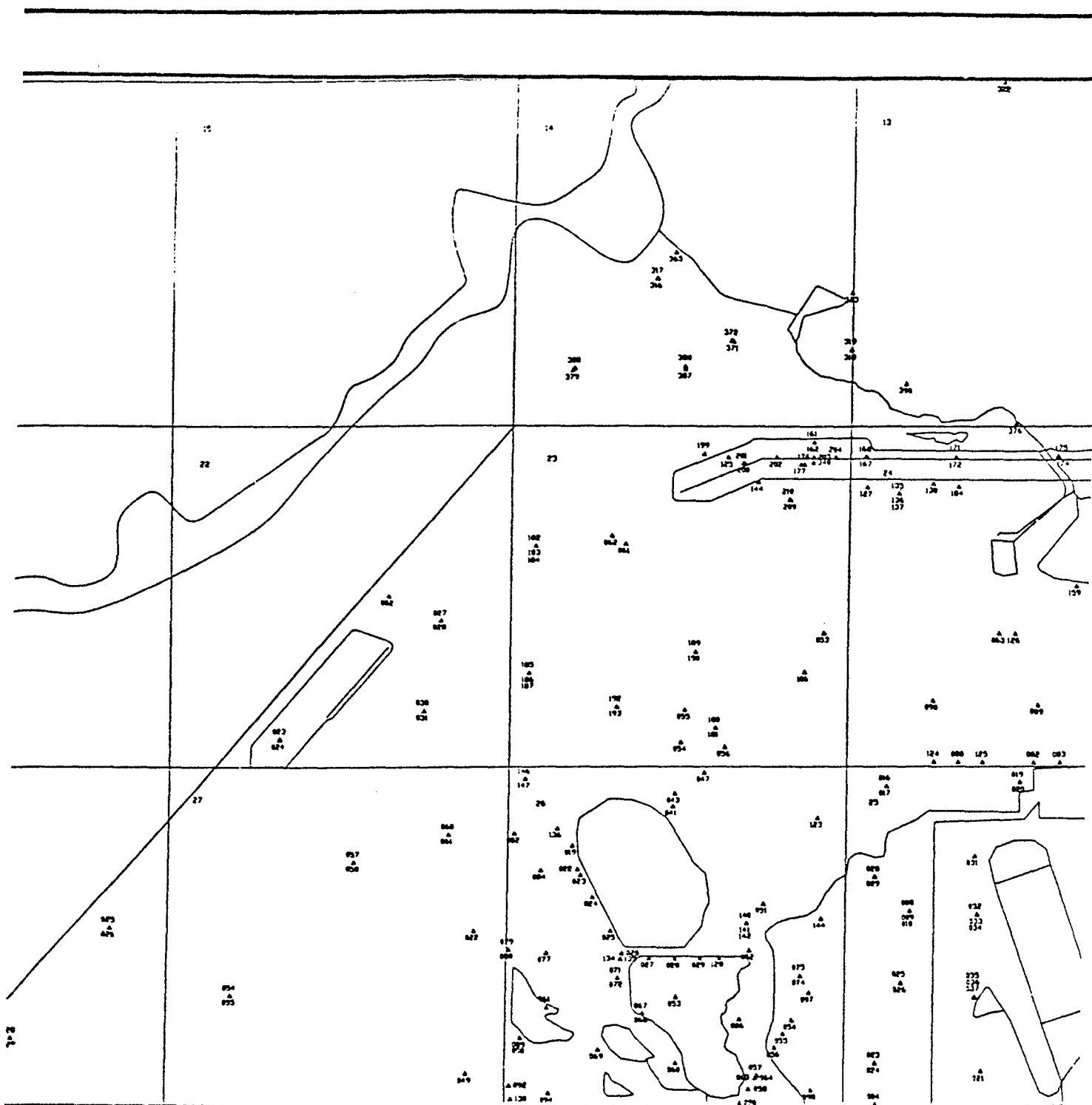
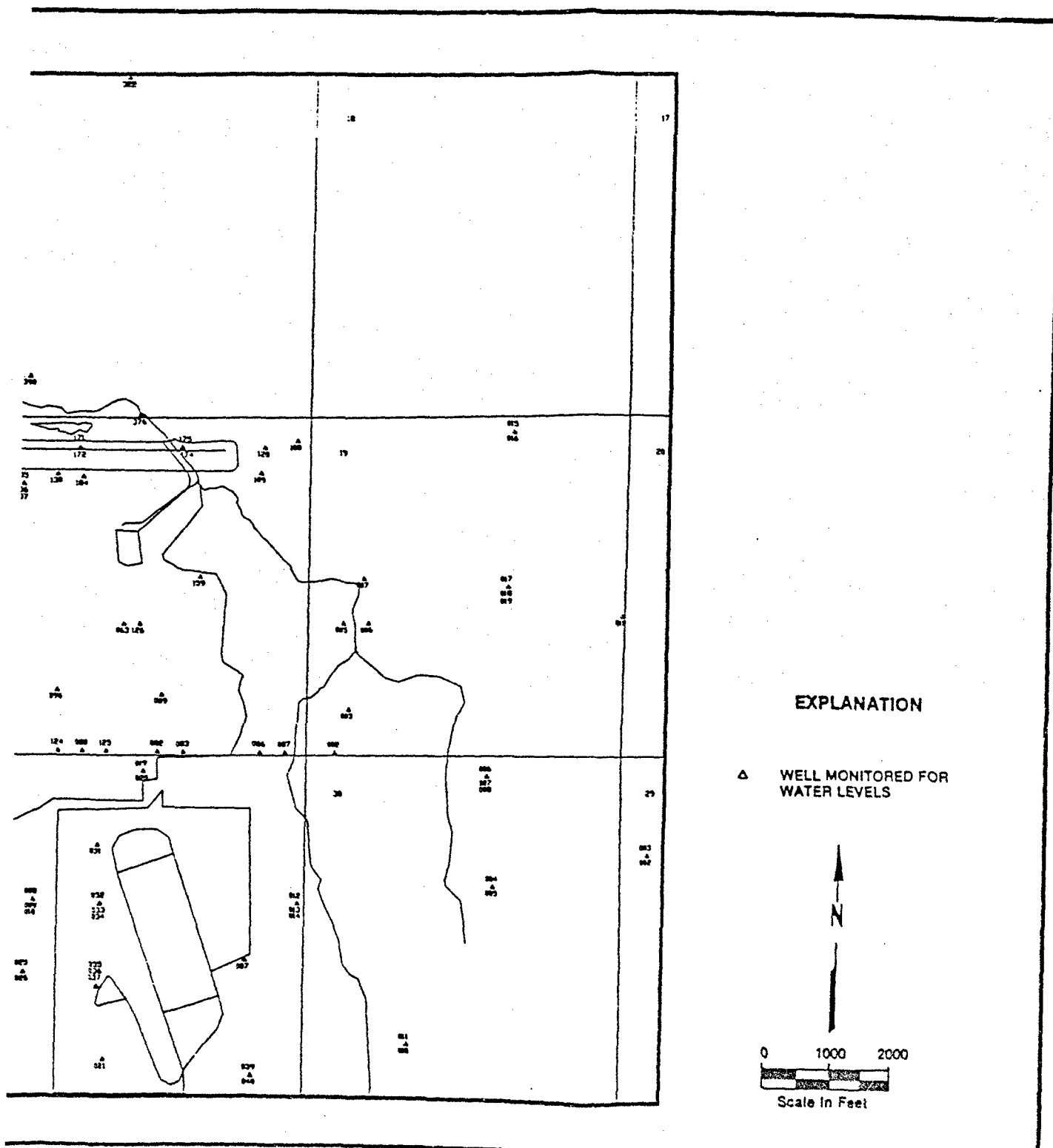
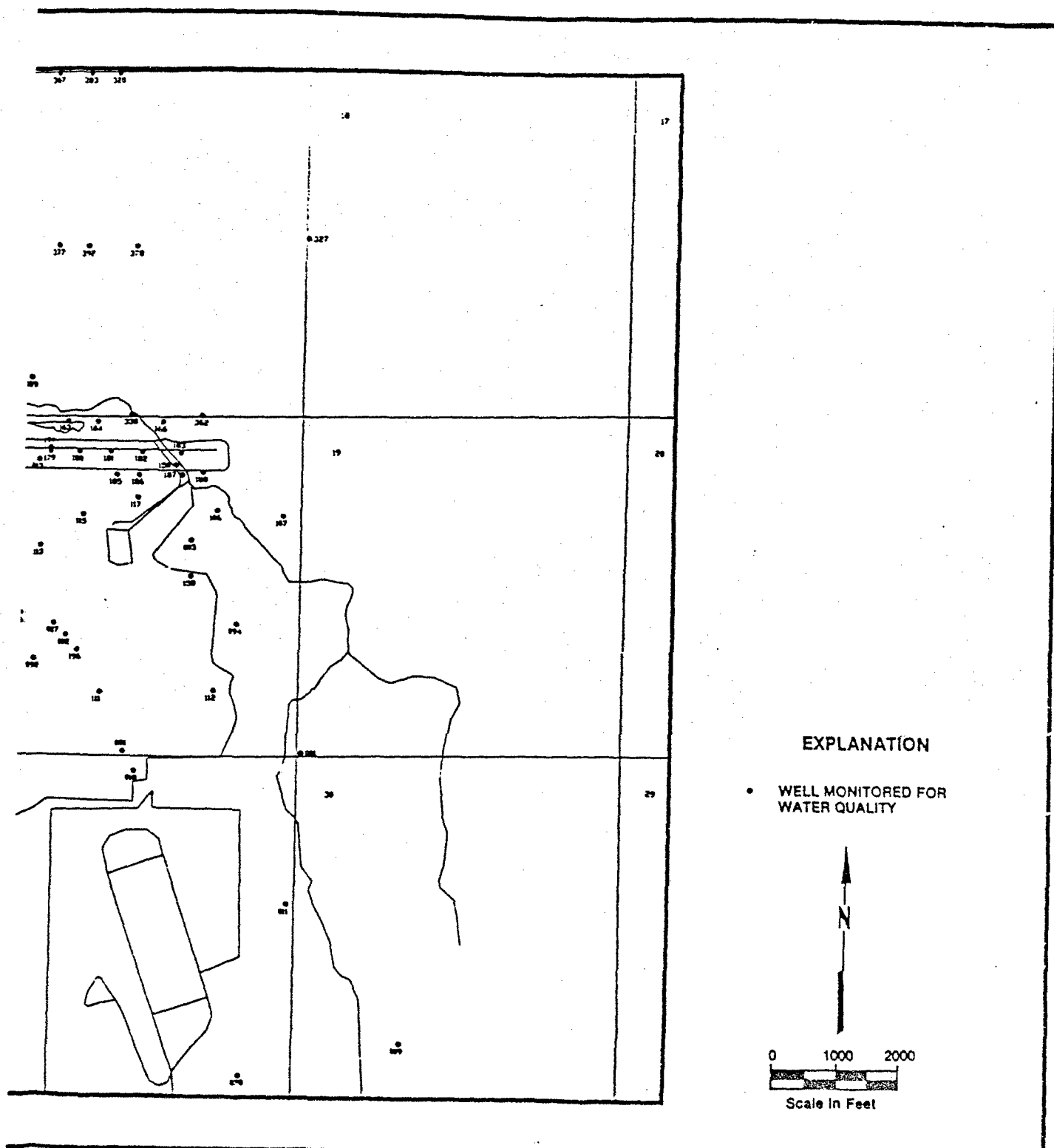


Figure B-23B
 RIVER MONITORING SITE LOCATIONS,
 WATER LEVEL NETWORK

25-000-0000



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U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Mountain Training Ground, Maryland

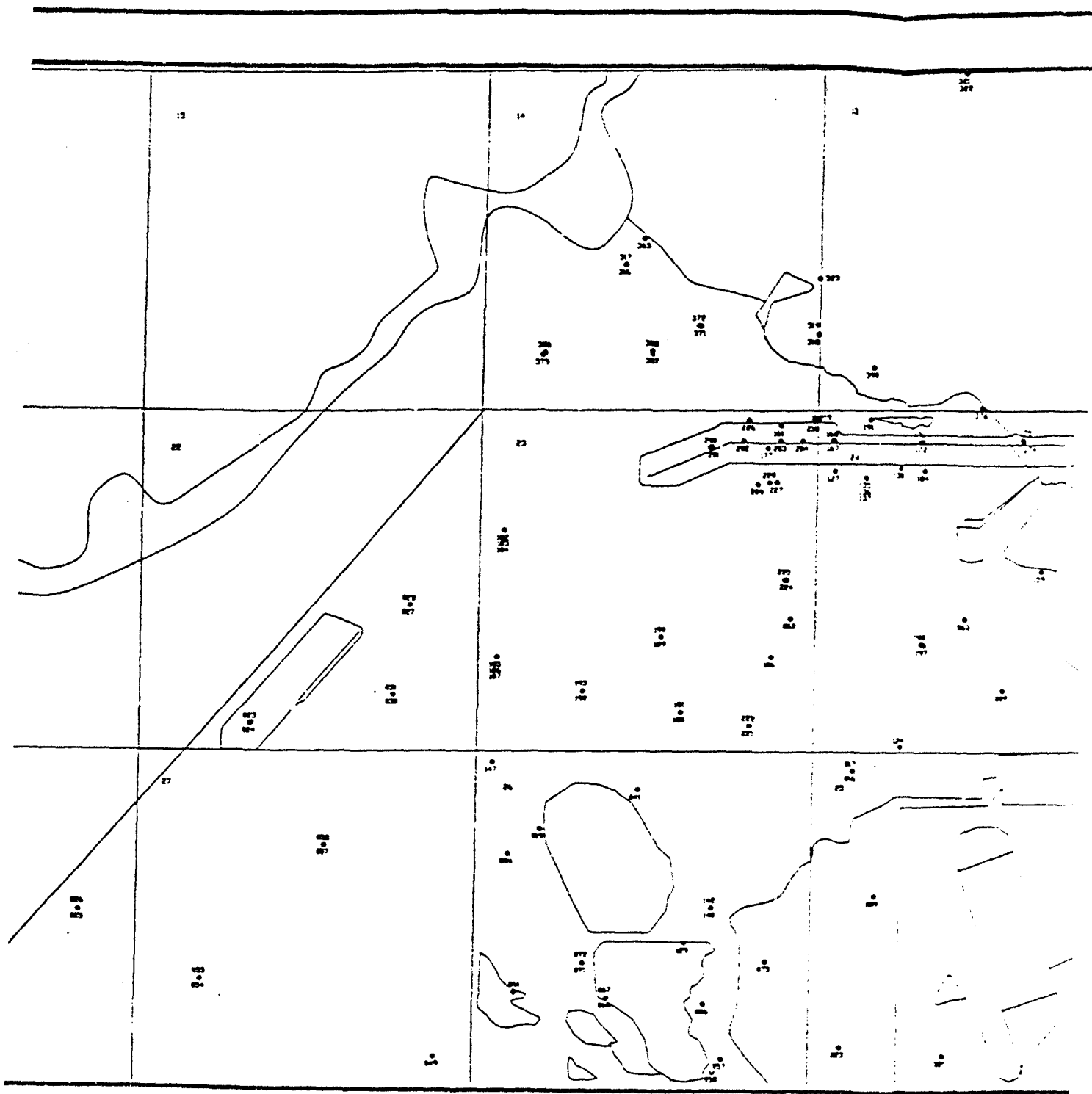


Figure B-24B
 RIVER MONITORING SITE LOCATIONS,
 WATER QUALITY NETWORK

DATE: ESE, 1988

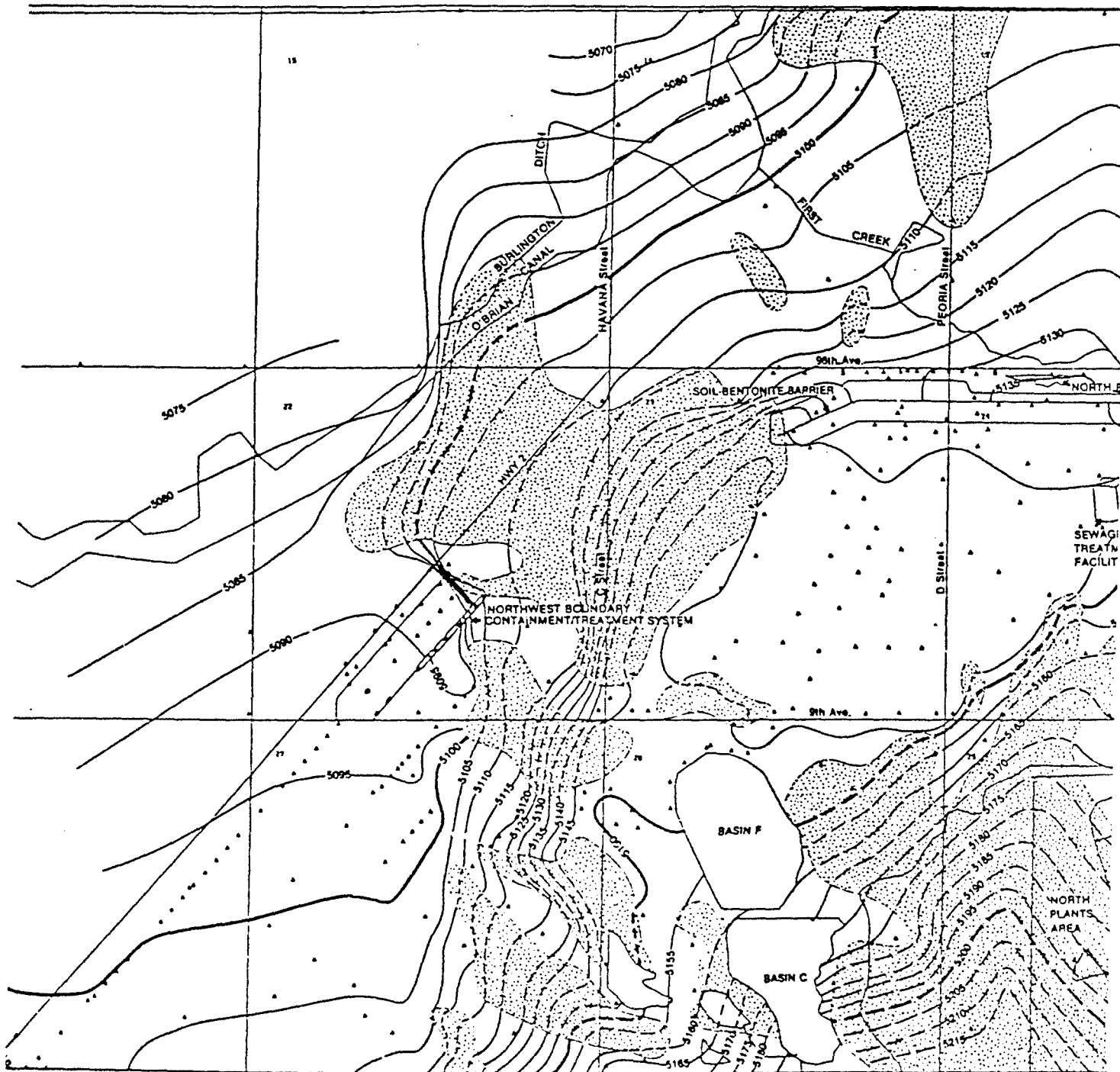
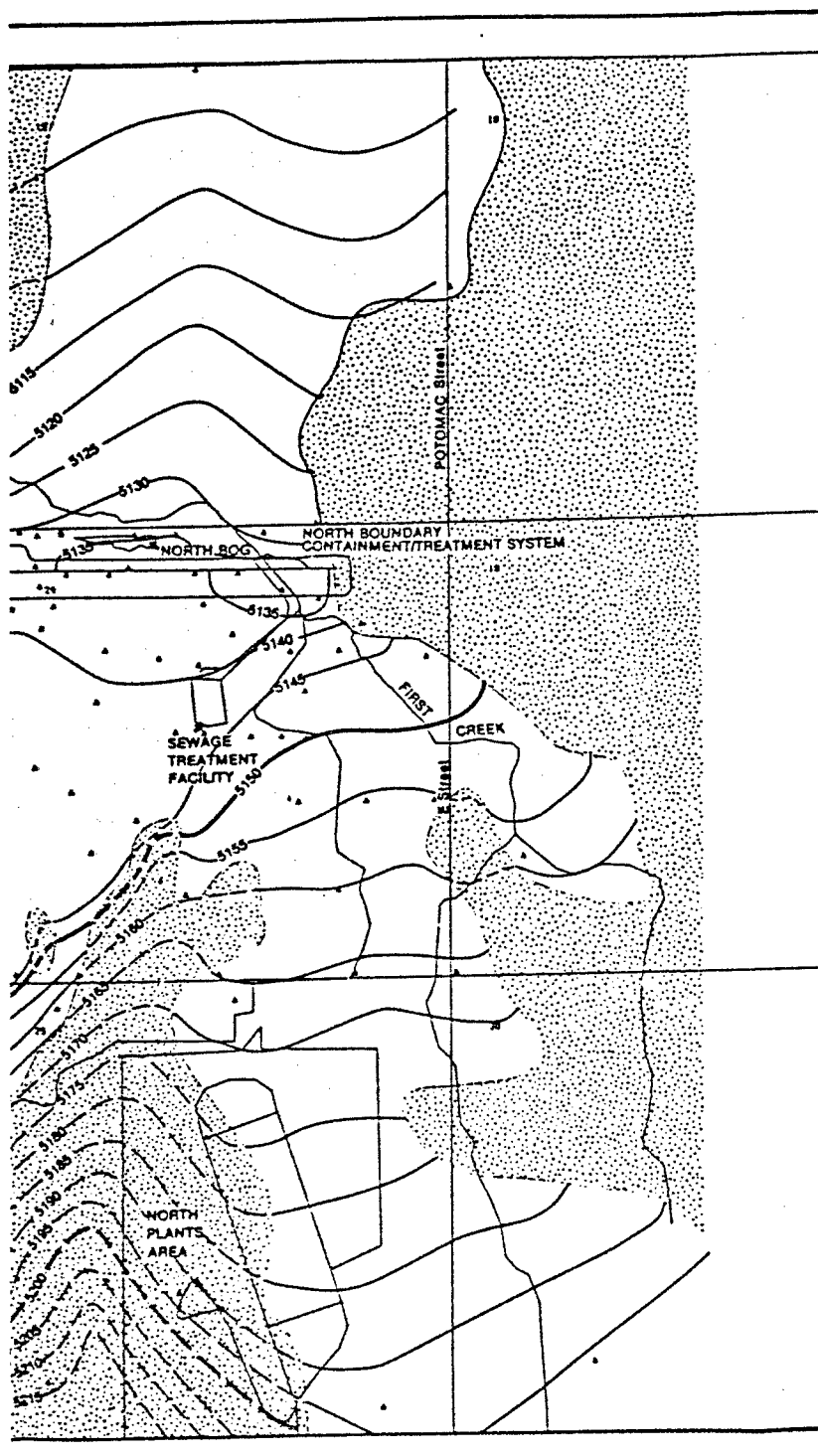


Figure B-25A
 WATER TABLE ELEVATION (FT, MSL)
 FIRST QUARTER FY 1987

SOURCE: ESE, 1988



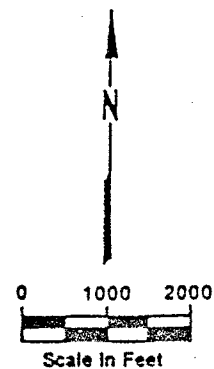
EXPLANATION

▲ ALLUVIAL MONITORING WELL

— 5100 — WATER TABLE ELEVATION CONTOUR INTERVAL

- - 5100 - - WATER TABLE ELEVATION CONTOUR INTERVAL INFERRED

WATER LEVELS COLLECTED FALL 1986

 UNSATURATED ALLUVIUM


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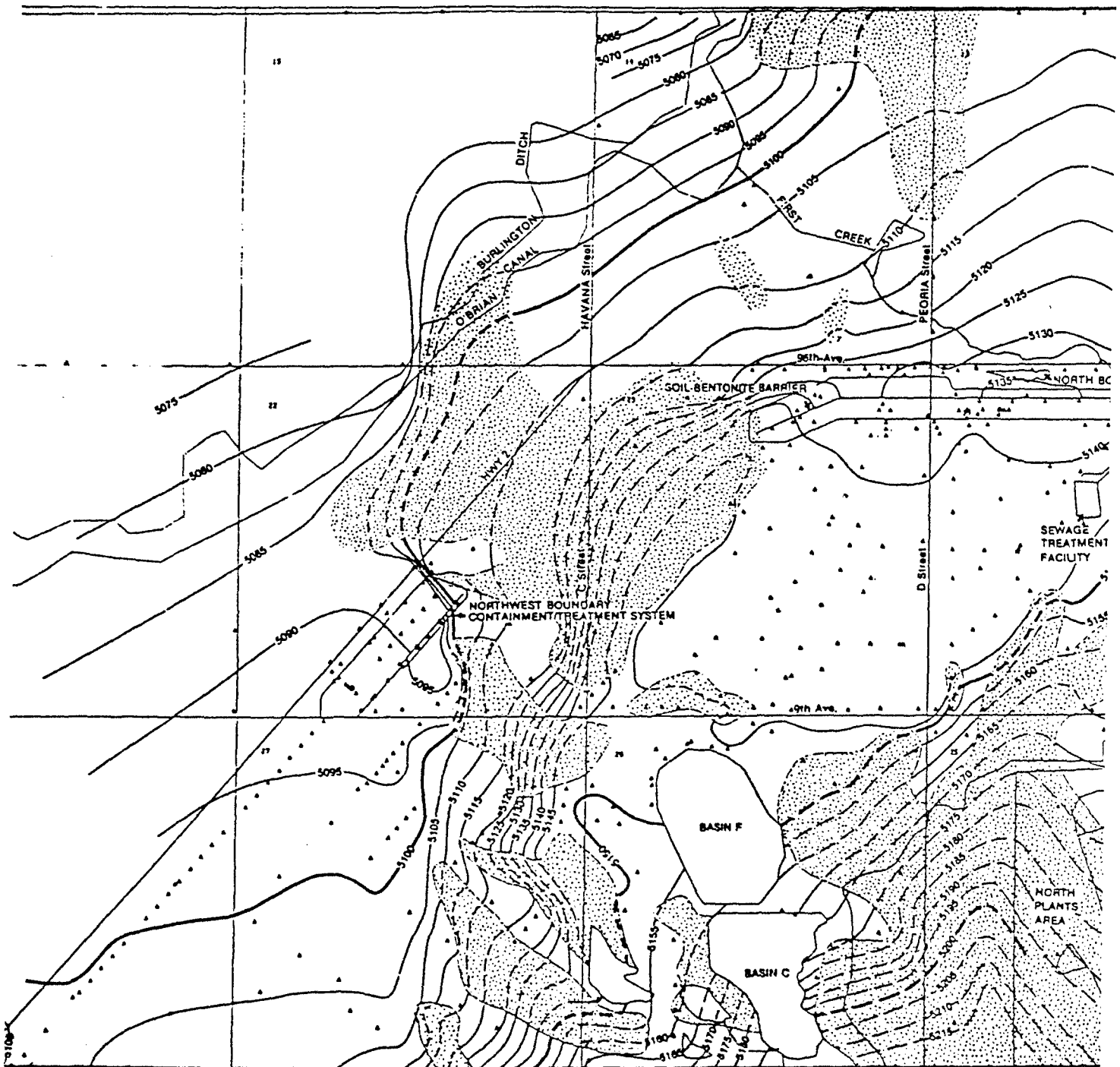
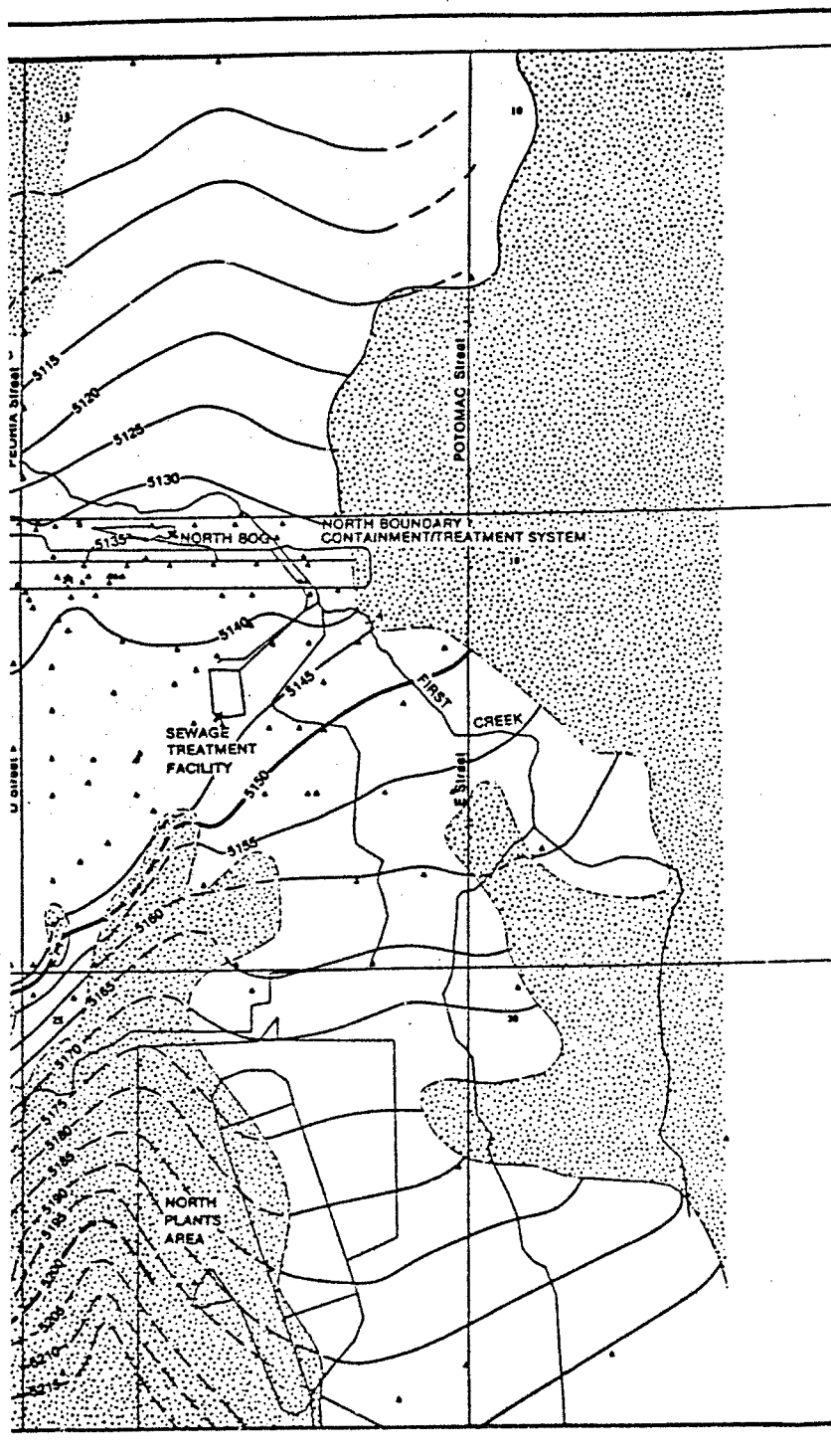


Figure B-25B
 WATER TABLE ELEVATION (FT, MSL)
 SECOND QUARTER FY 1987

JRCE:ESE,1988



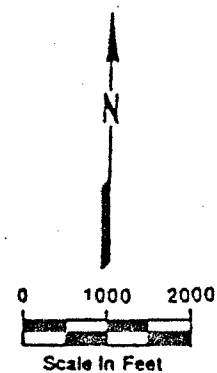
EXPLANATION

▲ ALLUVIAL MONITORING WELL

— 5140 — WATER TABLE ELEVATION CONTOUR INTERVAL

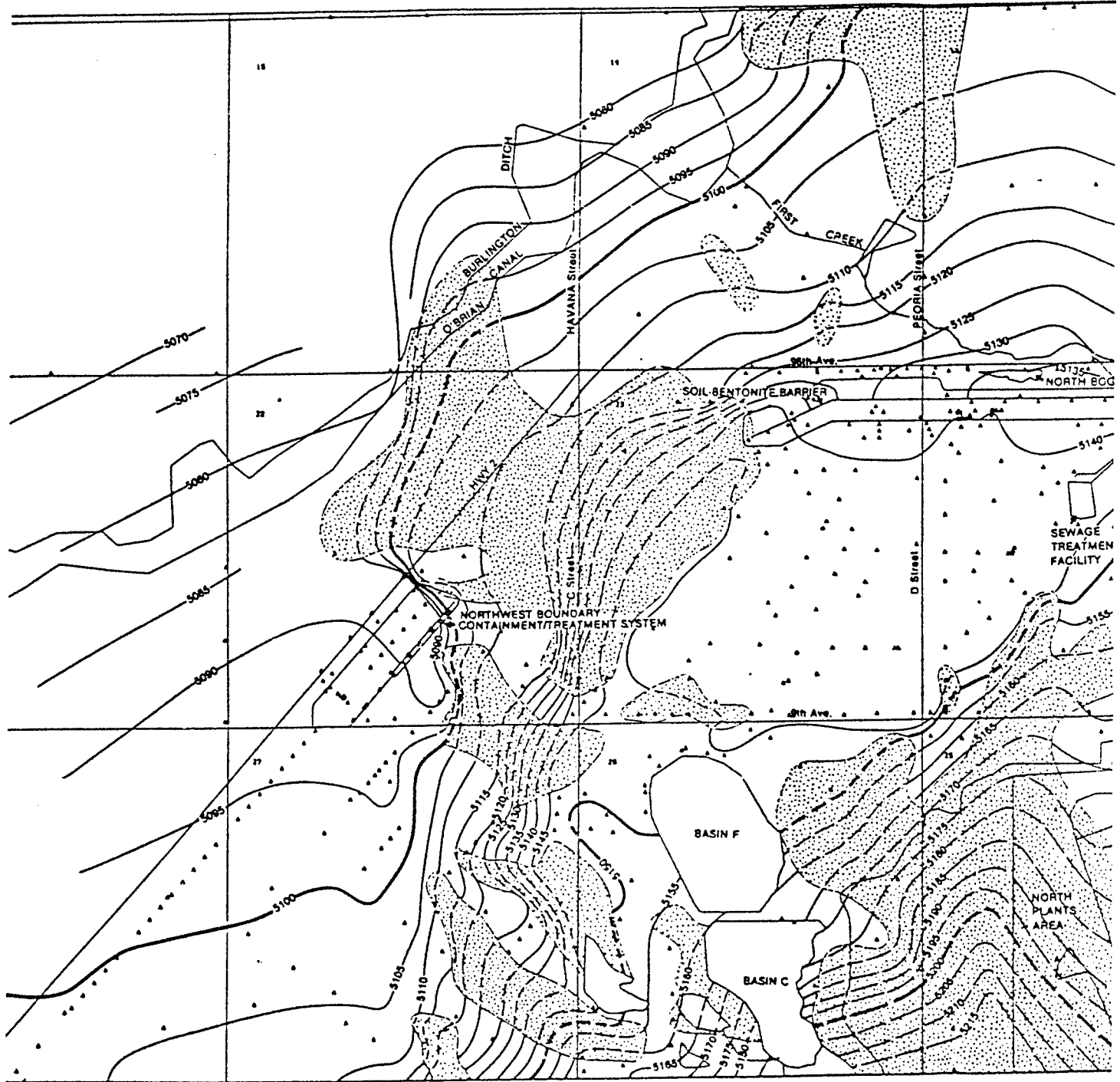
- - 5140 - - WATER TABLE ELEVATION CONTOUR INTERVAL INFERRED

WATER LEVELS COLLECTED WINTER 1987

 UNSATURATED ALLUVIUM


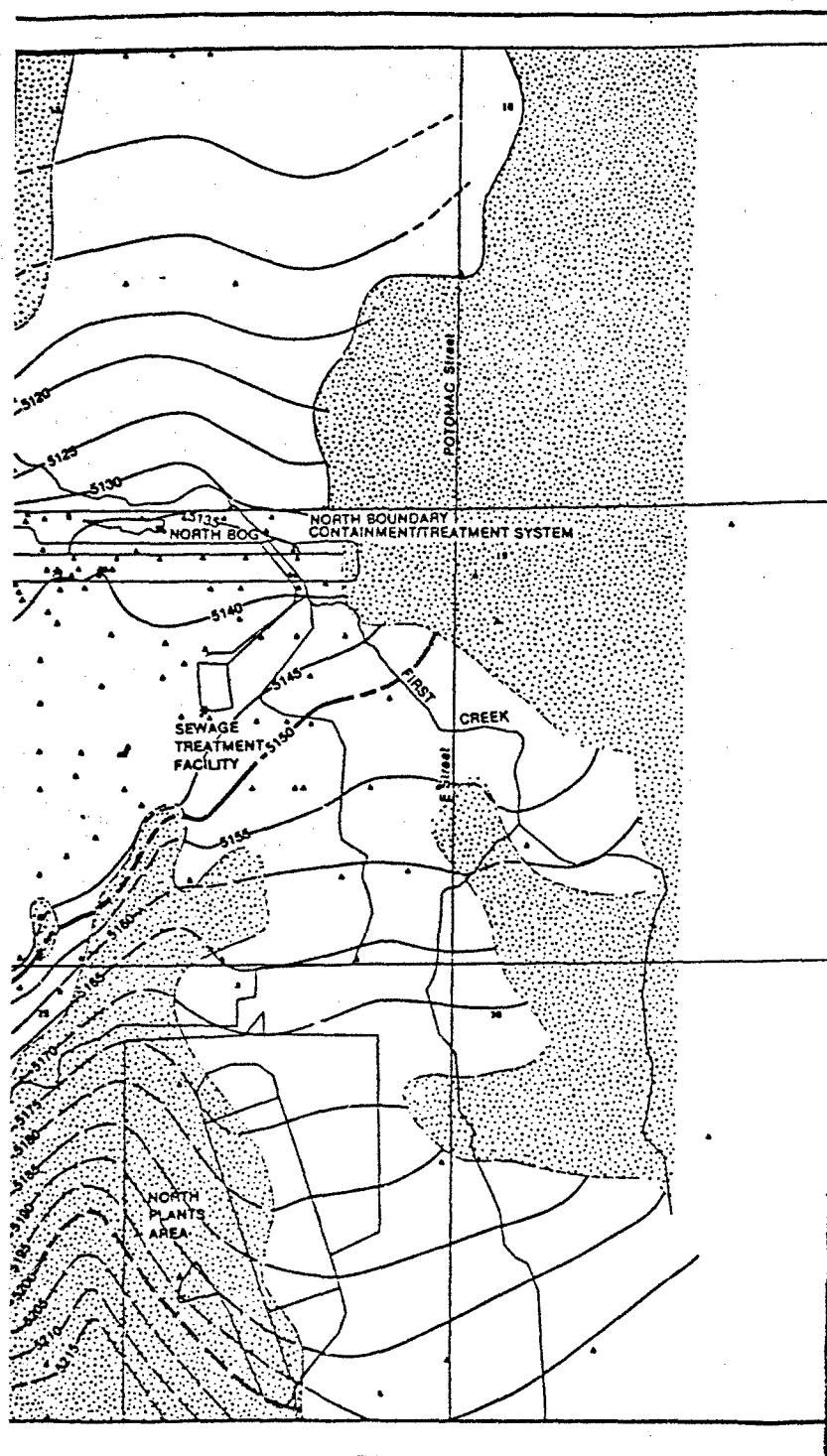
Prepared for:
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For Rocky Mountain Arsenal

Rocky Mountain Arsenal, Colorado, Maryland



ure B- 25C
 .TER TABLE EVEVATION (FT, MSL)
 RD QUARTER FY 1987

RCE:ESE,1988



EXPLANATION

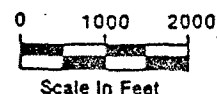
▲ ALLUVIAL MONITORING WELL

— 5140 — WATER TABLE ELEVATION CONTOUR INTERVAL

- - - 5140 - - - WATER TABLE ELEVATION CONTOUR INTERVAL INFERRED

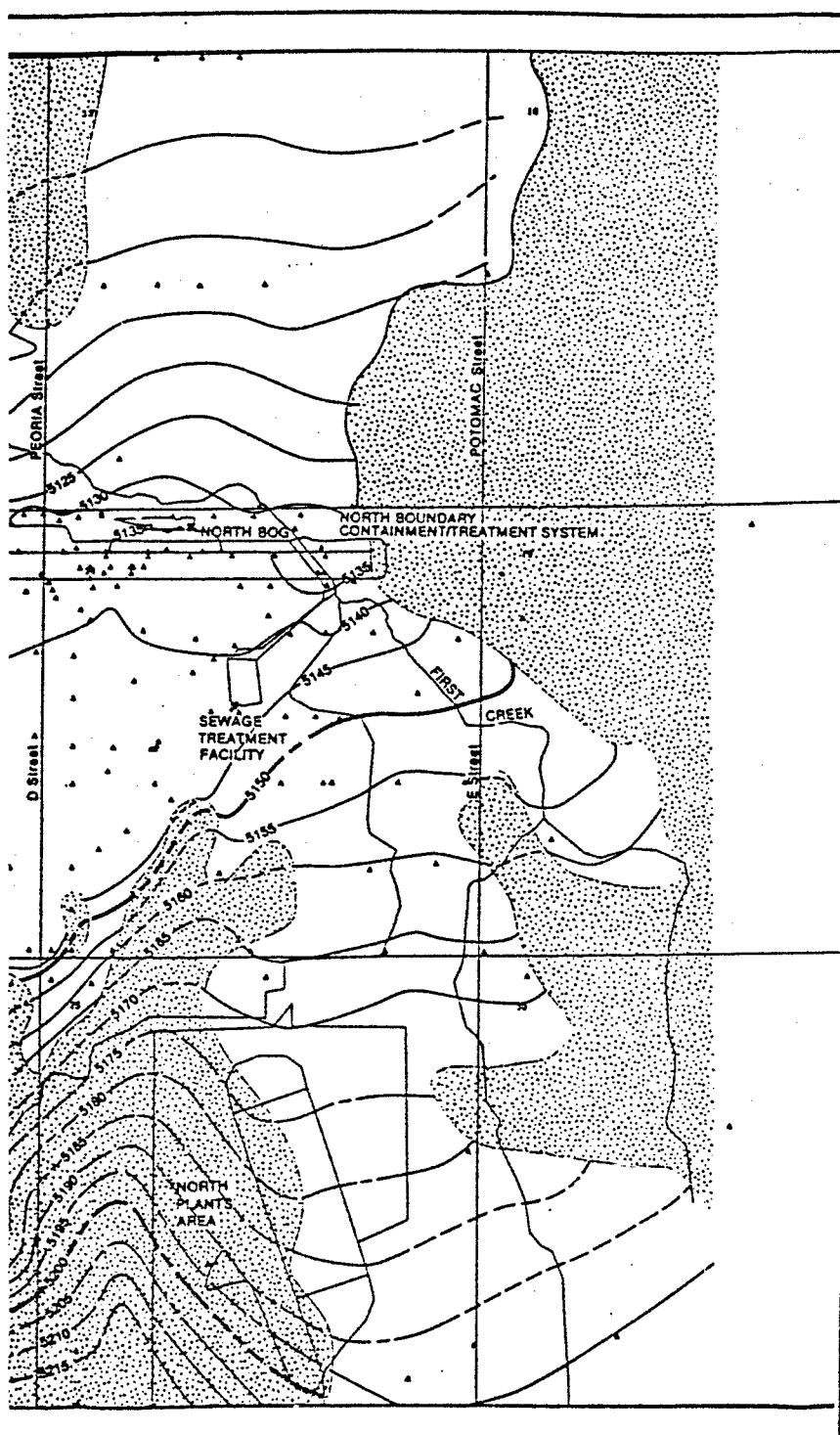
WATER LEVELS COLLECTED SPRING 1987

UNSATURATED ALLUVIUM



Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

Aberdeen Proving Ground, Maryland



EXPLANATION

▲ ALLUVIAL MONITORING WELL

— 5100 — WATER TABLE ELEVATION CONTOUR INTERVAL

- - 5100 - - WATER TABLE ELEVATION CONTOUR INTERVAL INFERRED

WATER LEVELS COLLECTED SUMMER 1987

 UNSATURATED ALLUVIUM


0 1000 2000
Scale in Feet

Prepared for:
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For Rocky Mountain Arsenal

Aberdeen Proving Ground, Maryland

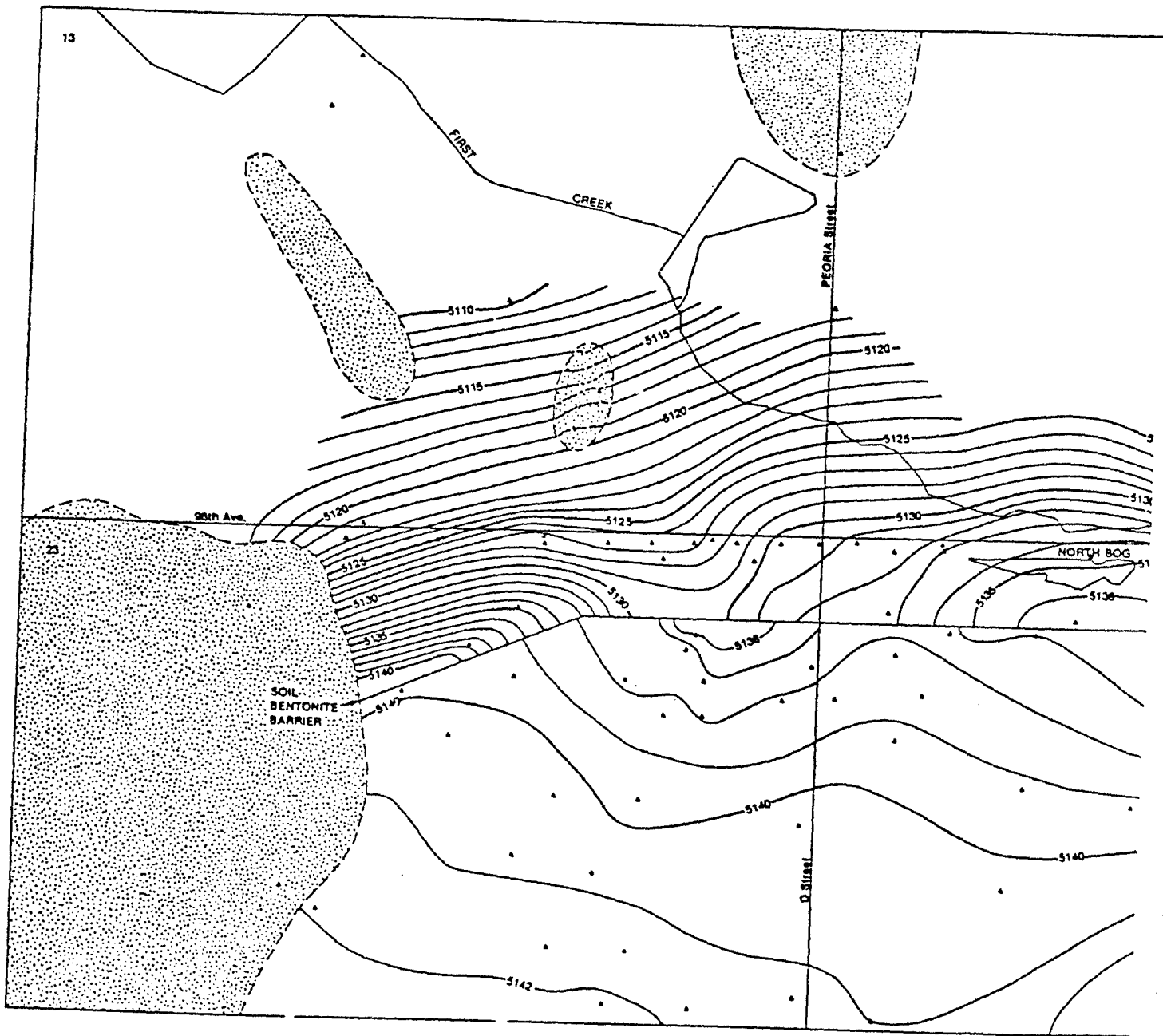
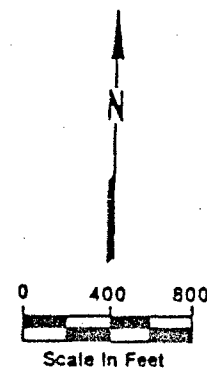


Figure B-26A
3CS, WATER TABLE ELEVATION (FEET,MSL)
T QUARTER FY87

URCE:ESE,1988

EXPLANATION

- 5140 — WATER TABLE ELEVATION
CONTOUR INTERVAL
- ▲ ALLUVIAL MONITORING WELL
WATER LEVELS COLLECTED
FALL 1986
- UNSATURATED ALLUVIUM



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U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

Aberdeen Proving Ground, Maryland

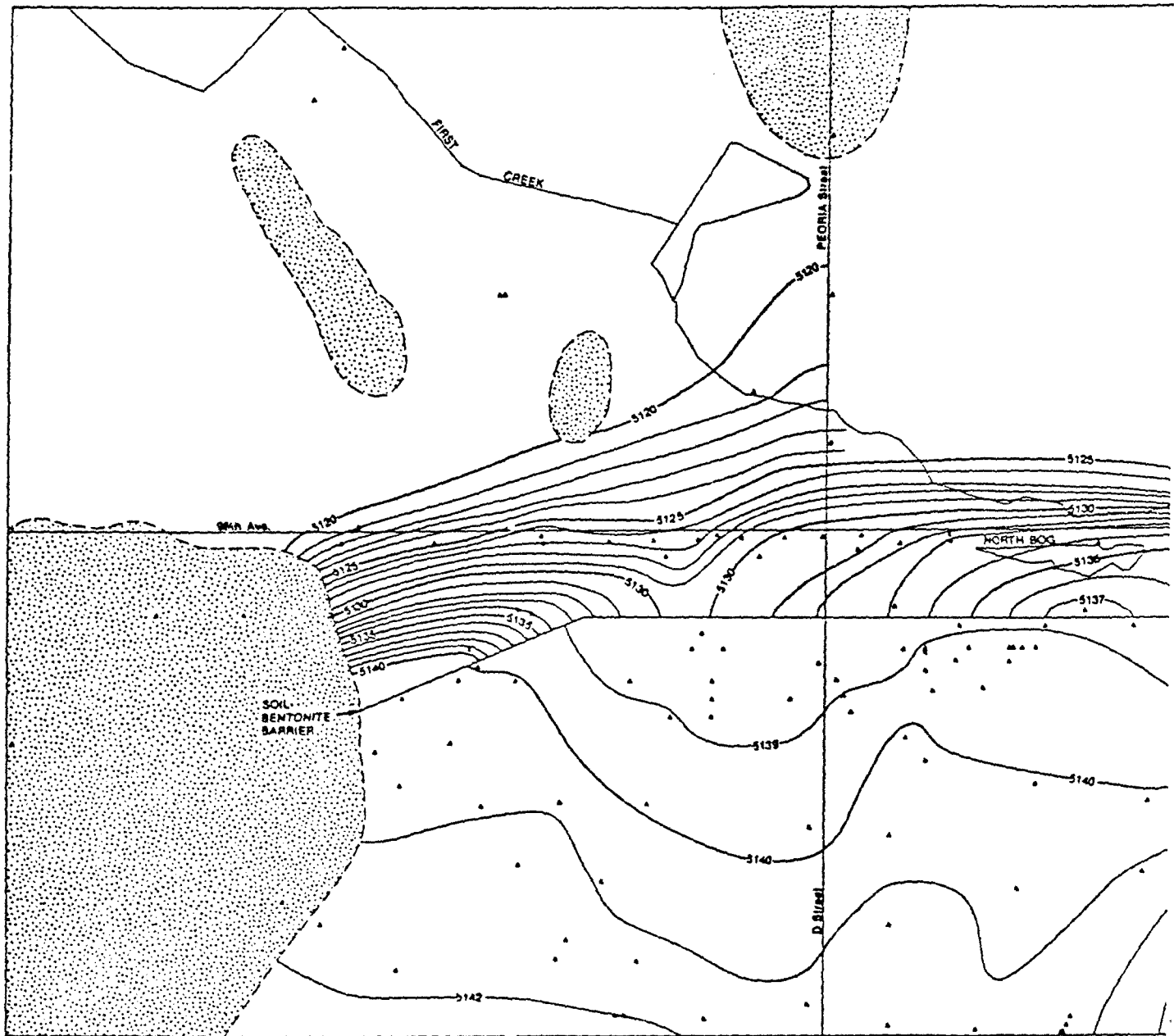
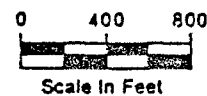
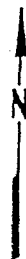


Figure B-26B
CS, WATER TABLE ELEVATION (FEET, MSL)
D QUARTER FY87

IRCE:ESE, 1988

EXPLANATION

- 10 — WATER TABLE ELEVATION CONTOUR INTERVAL
- ▲ ALLUVIAL MONITORING WELL WATER LEVELS COLLECTED WINTER 1987
- UNSATURATED ALLUVIUM



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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

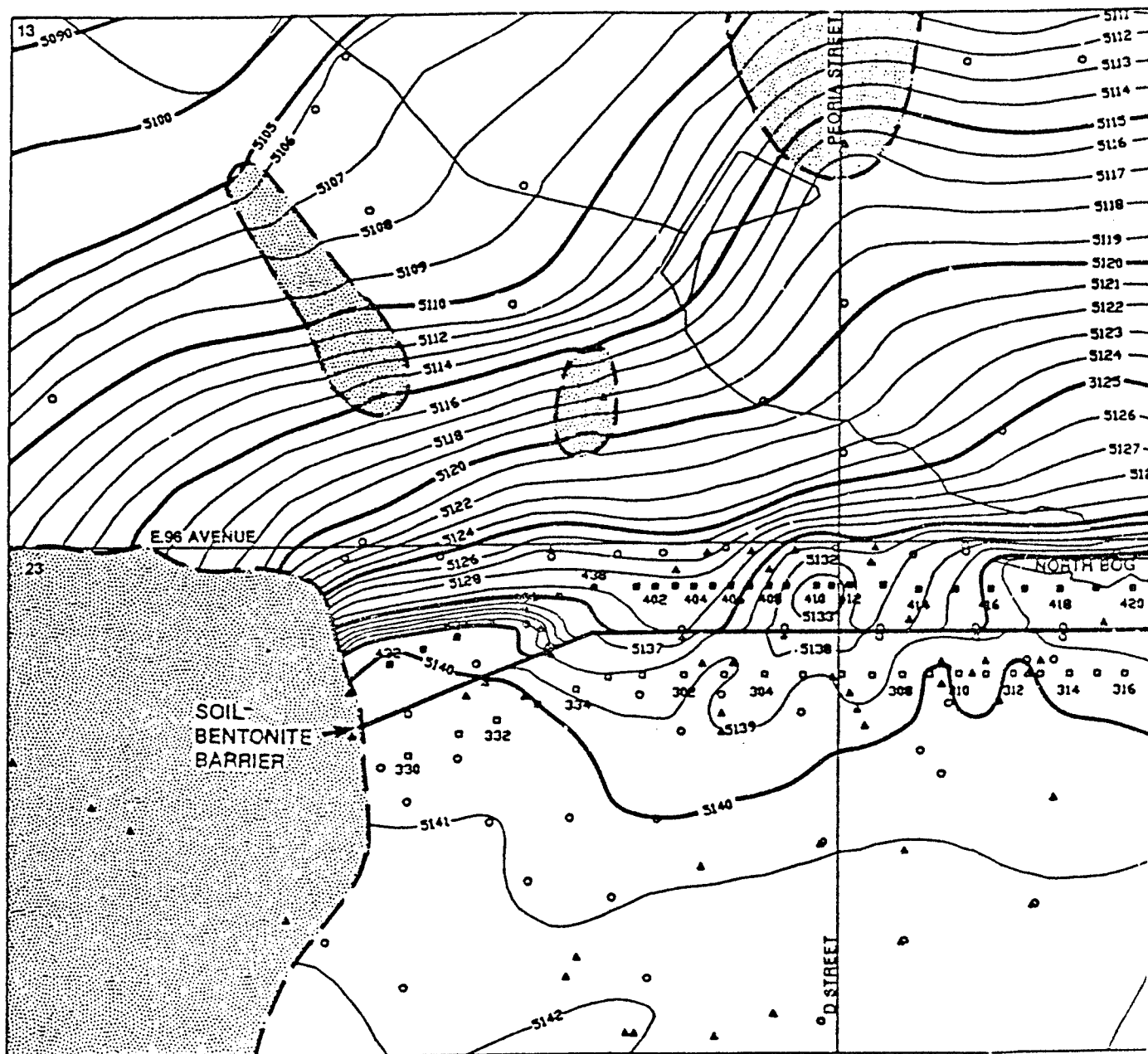
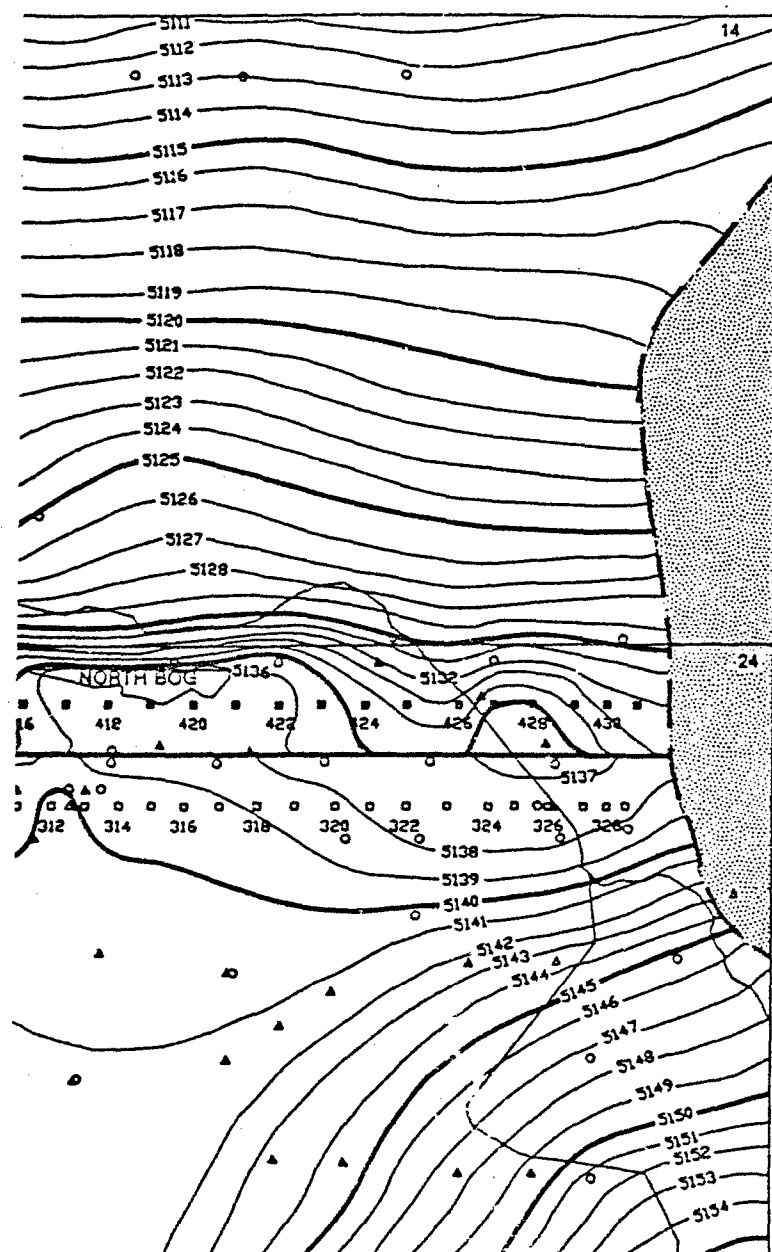


Figure B-26C
NBCS, WATER TABLE ELEVATION (FEET,MSL)
3RD QUARTER, FY87

SOURCE: ESE, 1988



EXPLANATION

- 5150 WATER LEVEL CONTOUR (MSL)
- DEWATERING WELL
- ▣ RECHARGE WELL
- ALLUVIAL WELL SAMPLED FOR WATER QUALITY AND MEASURED FOR WATER LEVELS
- △ ALLUVIAL WELL MEASURED FOR WATER LEVELS ONLY
- } WATER LEVEL MEASURED THIS QUARTER
- ▣ UNSATURATED ALLUVIUM



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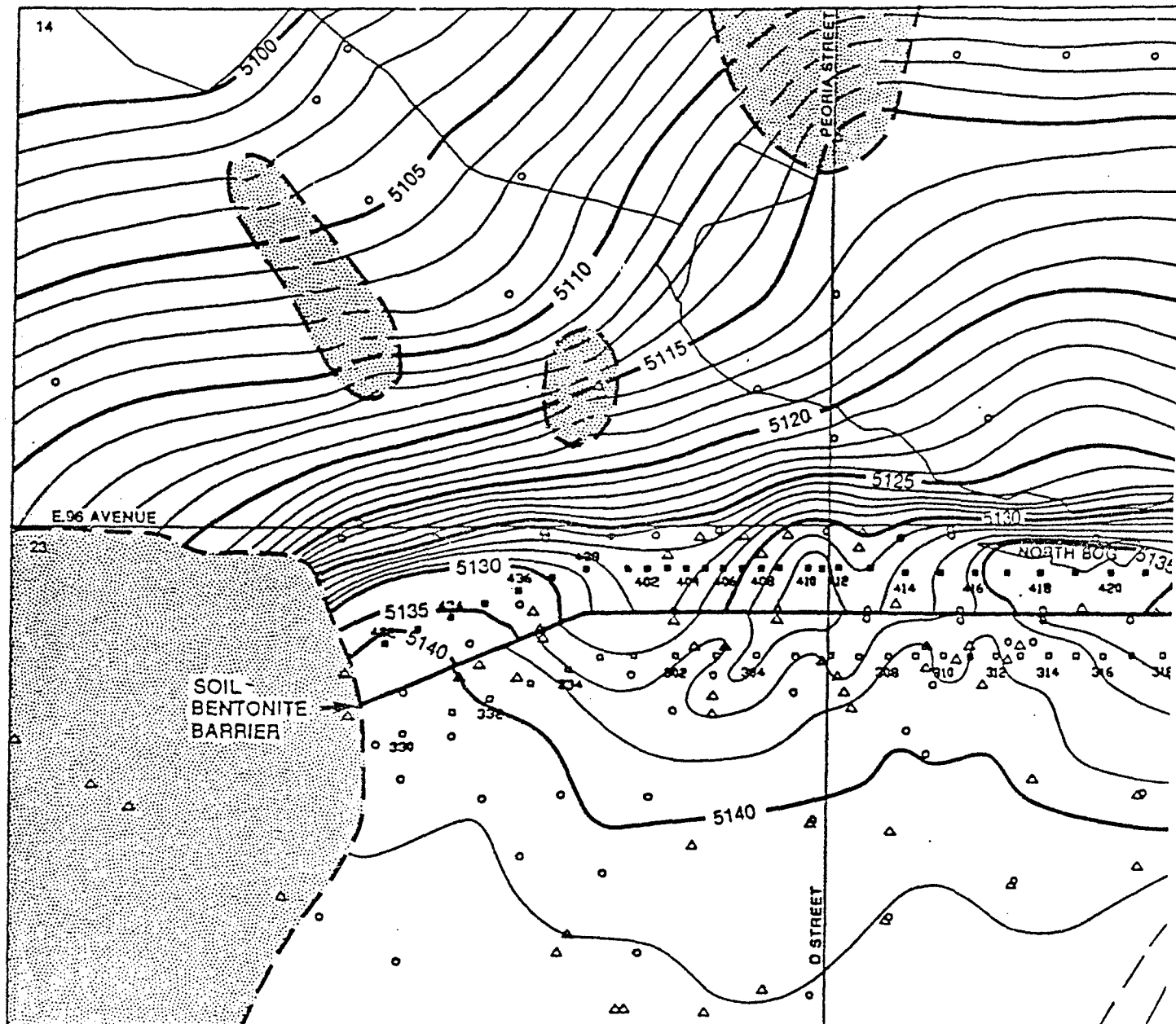
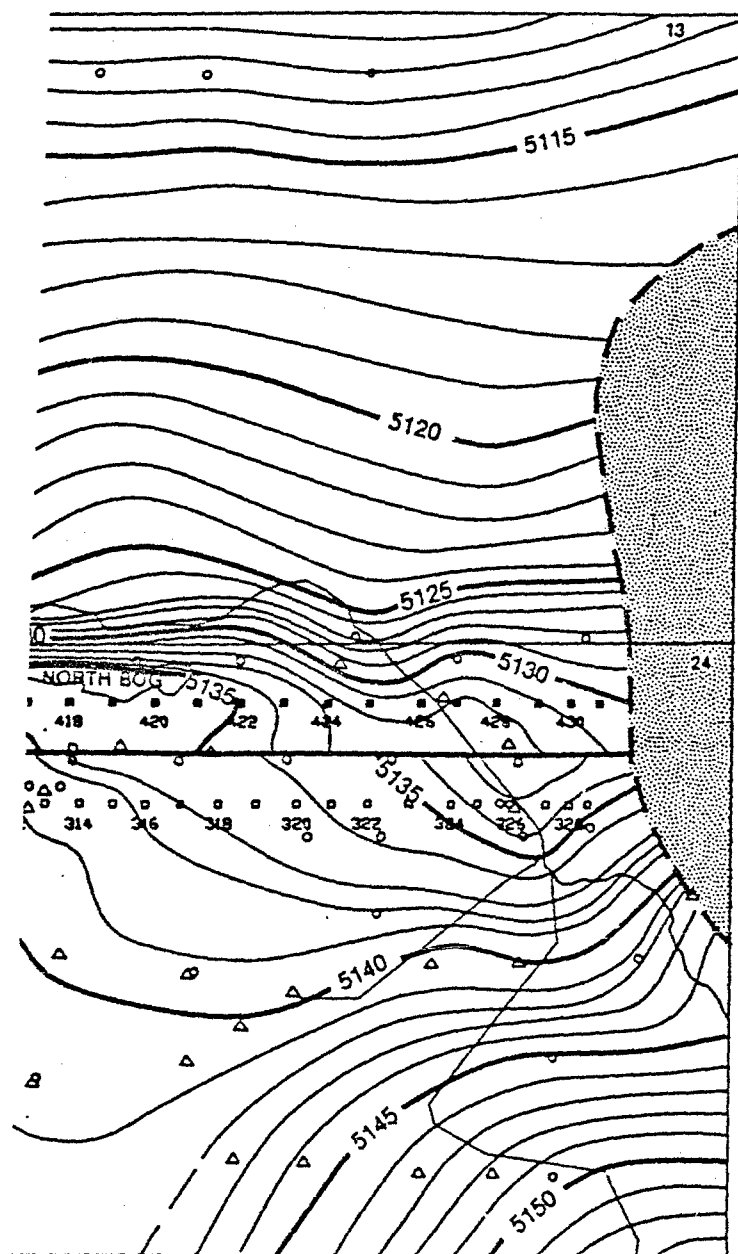


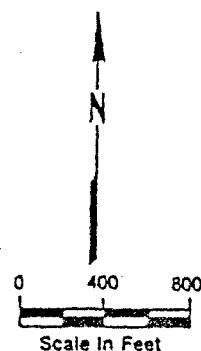
Figure B-26D
NBCS, WATER TABLE ELEVATION (FEET,MSL)
4TH QUARTER, FY87

SOURCE: ESE, 1988



EXPLANATION

- 5150 — WATER LEVEL CONTOUR (MSL)
- DEWATERING WELL
- ▣ RECHARGE WELL
- ALLUVIAL WELL SAMPLED FOR WATER QUALITY AND MEASURED FOR WATER LEVELS.
- △ ALLUVIAL WELL MEASURED FOR WATER LEVELS ONLY
- } WATER LEVEL MEASURED THIS QUARTER
- ▣ UNSATURATED ALLUVIUM



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Aberdeen Proving Ground, Maryland

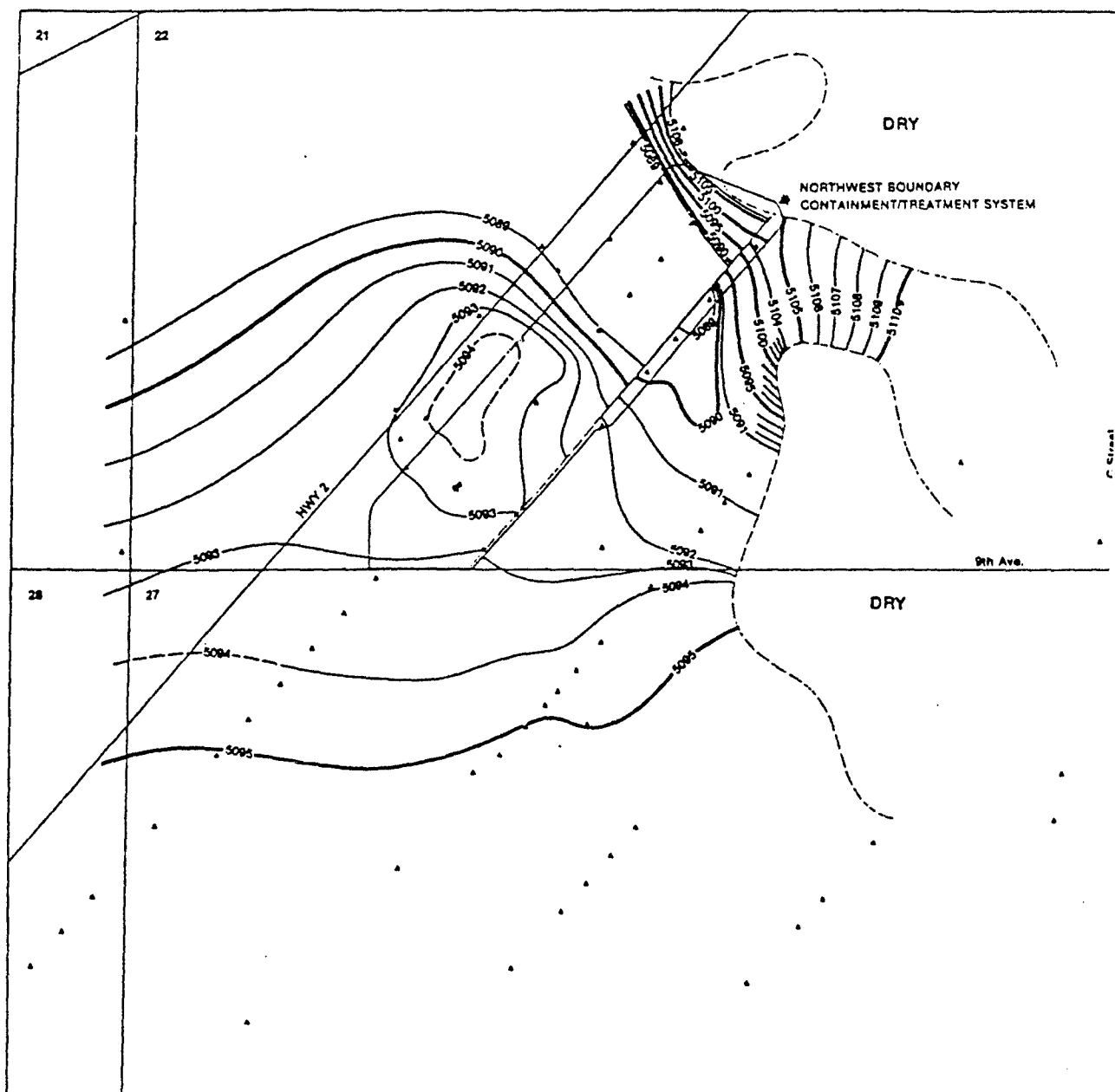
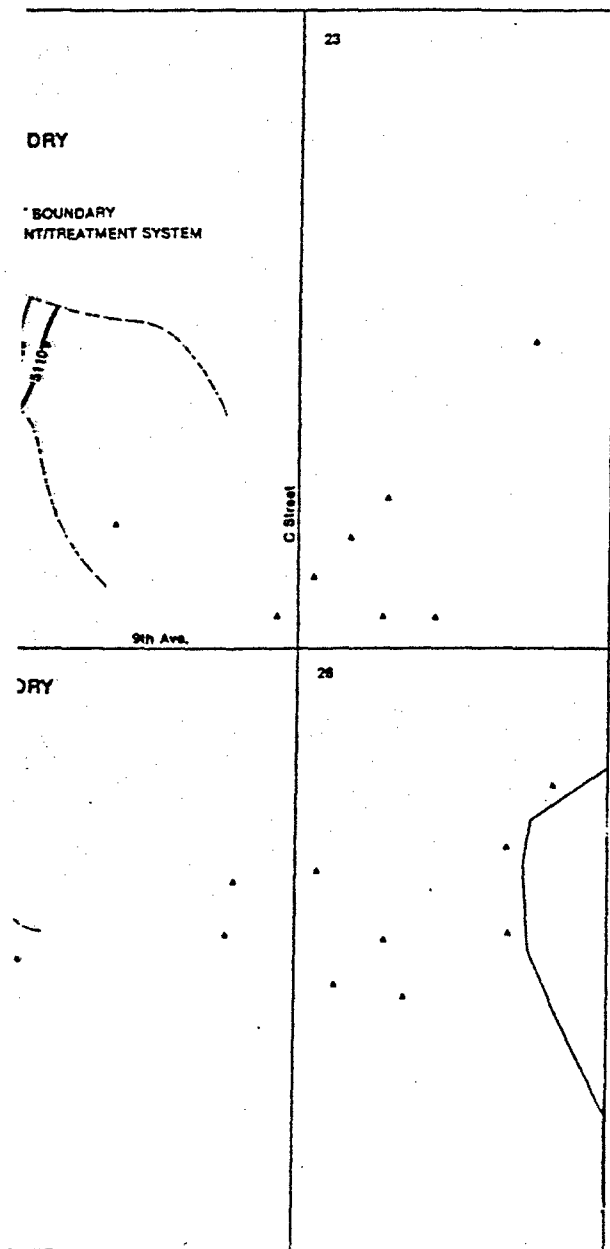


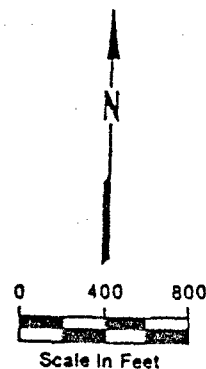
Figure B-27A
 BCS, WATER TABLE ELEVATION (FEET,MSL)
 QUARTER FY87

RCE:ESE,1988



EXPLANATION

- 5100 — WATER TABLE ELEVATION CONTOUR LINE
- - - 5100 - - - INFERRED WATER TABLE ELEVATION LINE
- ALLUVIAL WELL MONITORED FOR WATER LEVELS
- CONTOUR INTERVAL : 1 FT.



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 For Rocky Mountain Arsenal
 Aberdeen Proving Ground, Maryland

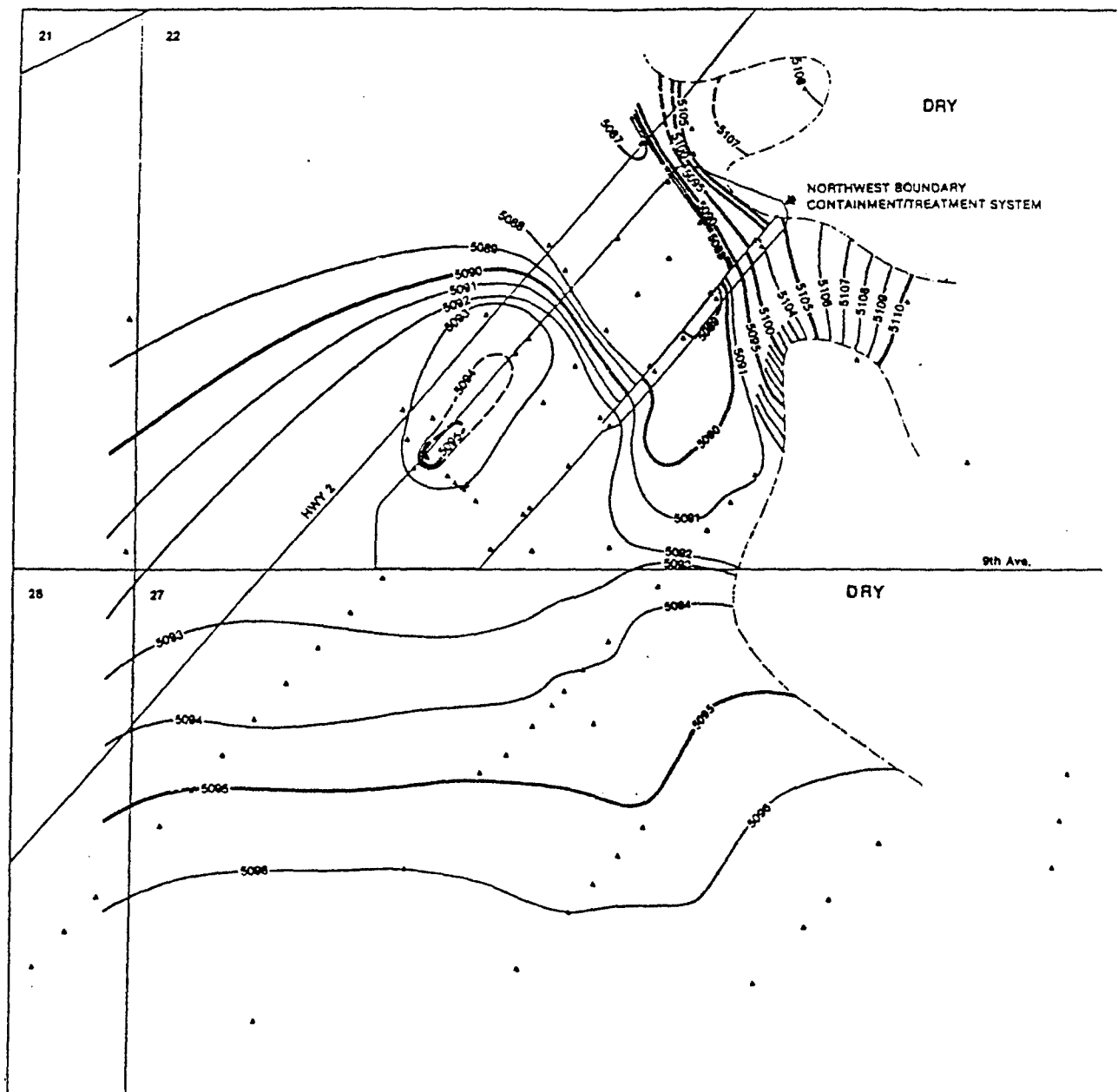
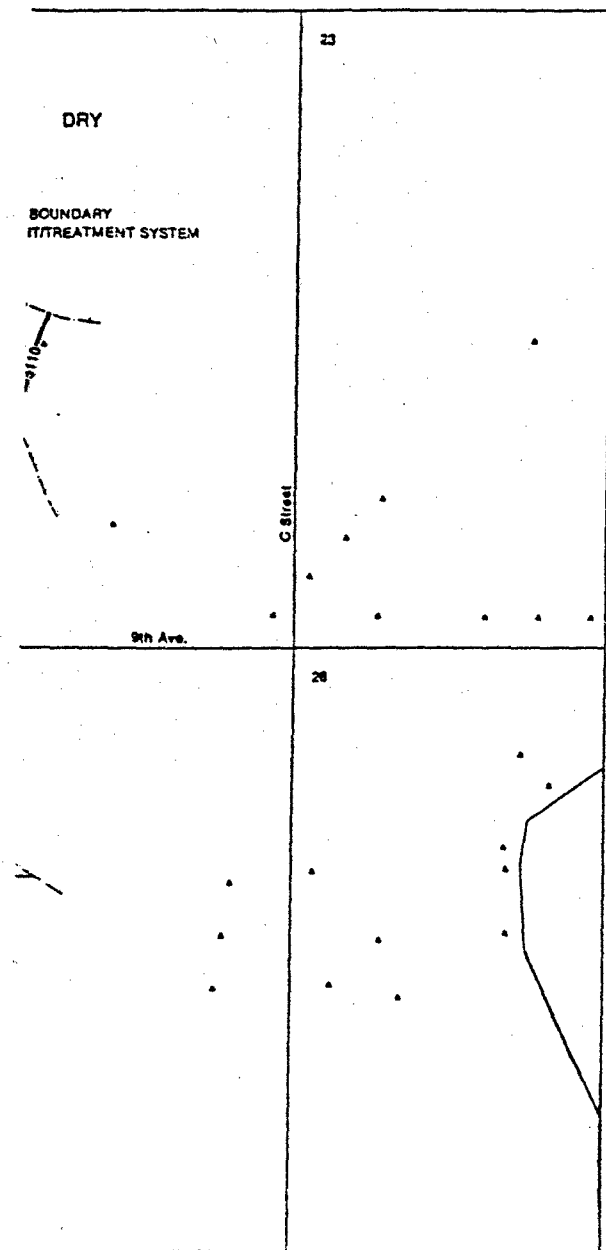


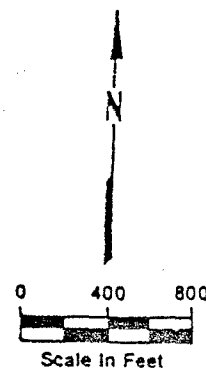
Figure B-27B
 VBCS, WATER TABLE ELEVATION (FEET,MSL)
 D QUARTER FY87

JRCE:ESE,1988



EXPLANATION

- 5100 WATER TABLE ELEVATION CONTOUR LINE
- 5100 INFERRED WATER TABLE ELEVATION LINE
- ▲ ALLUVIAL WELL MONITORED FOR WATER LEVELS
- CONTOUR INTERVAL : 1 FT.



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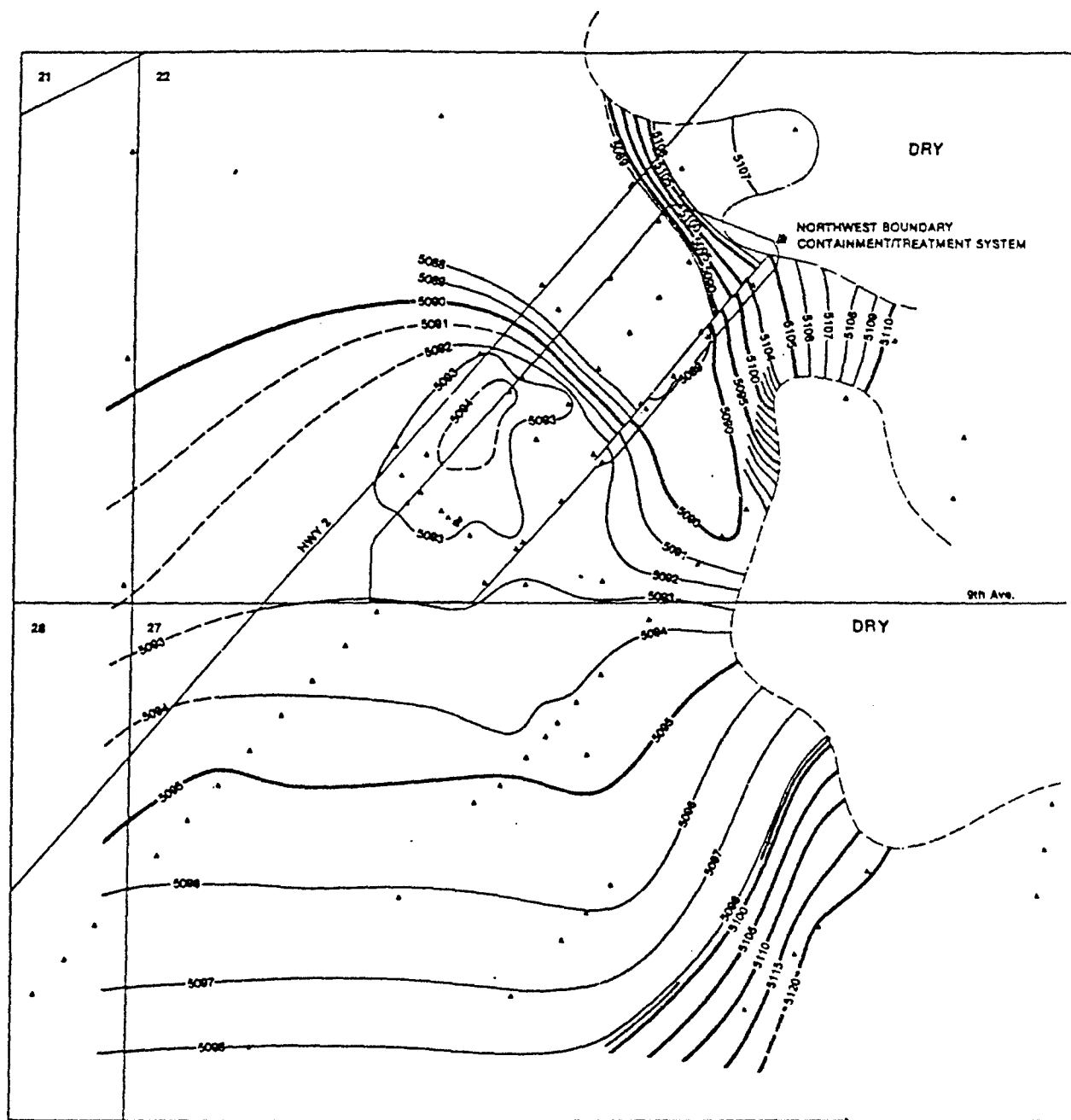


Figure B-27C
 IWBCS, WATER TABLE ELEVATION (FEET,MSL)
 RD QUARTER FY87

SOURCE: ESE, 1988

DRY

UNDARY
REATMENT SYSTEM

23

C Street

9th Ave.

28

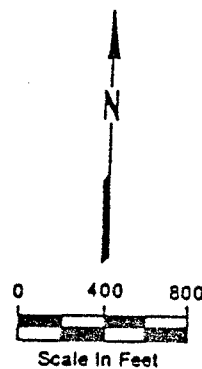
EXPLANATION

—5100— WATER TABLE ELEVATION
CONTOUR LINE

- - -5100- - - INFERRED WATER TABLE
ELEVATION LINE

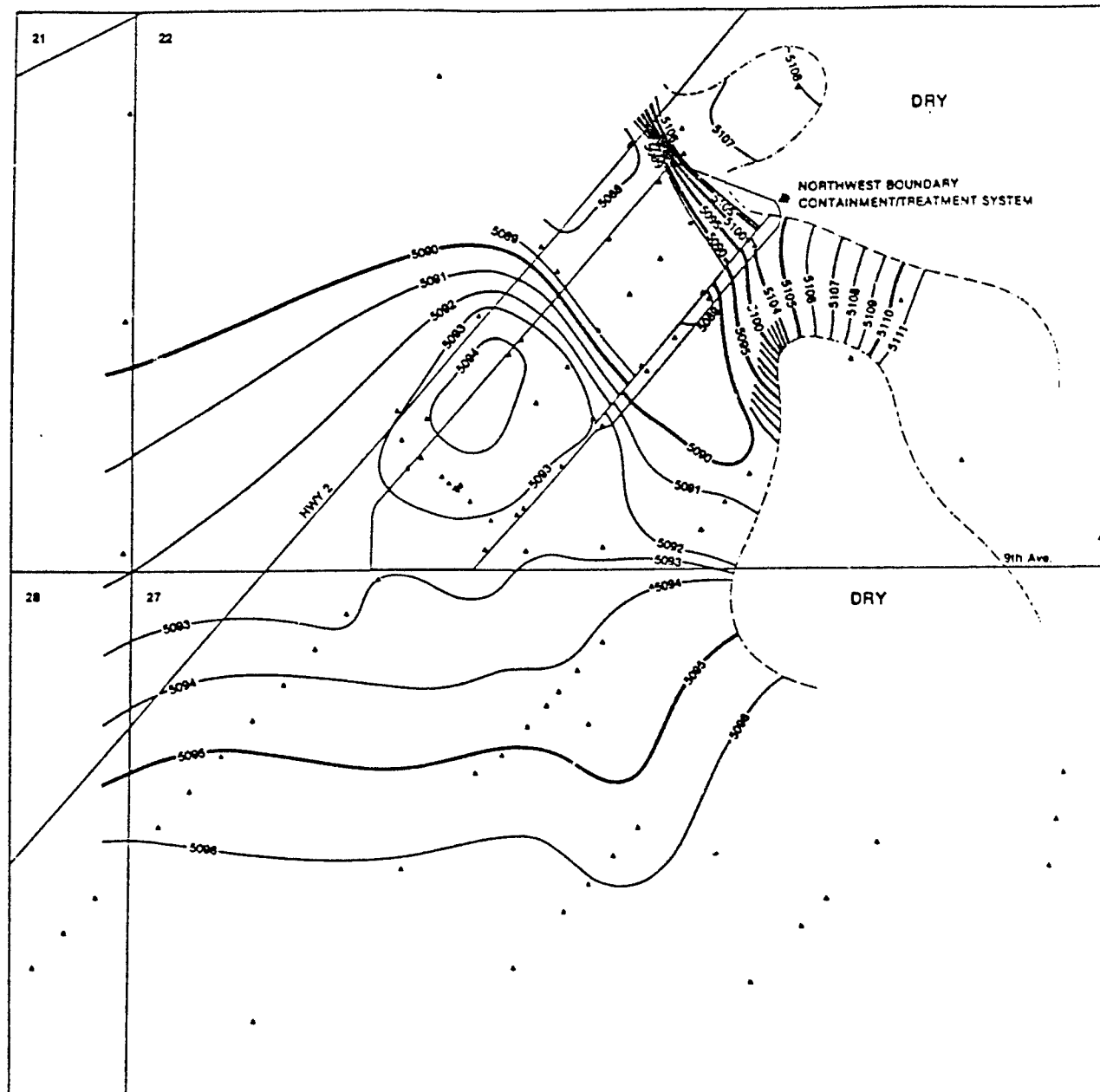
▲ ALLUVIAL WELL MONITORED
FOR WATER LEVELS

CONTOUR INTERVAL : 1 FT.



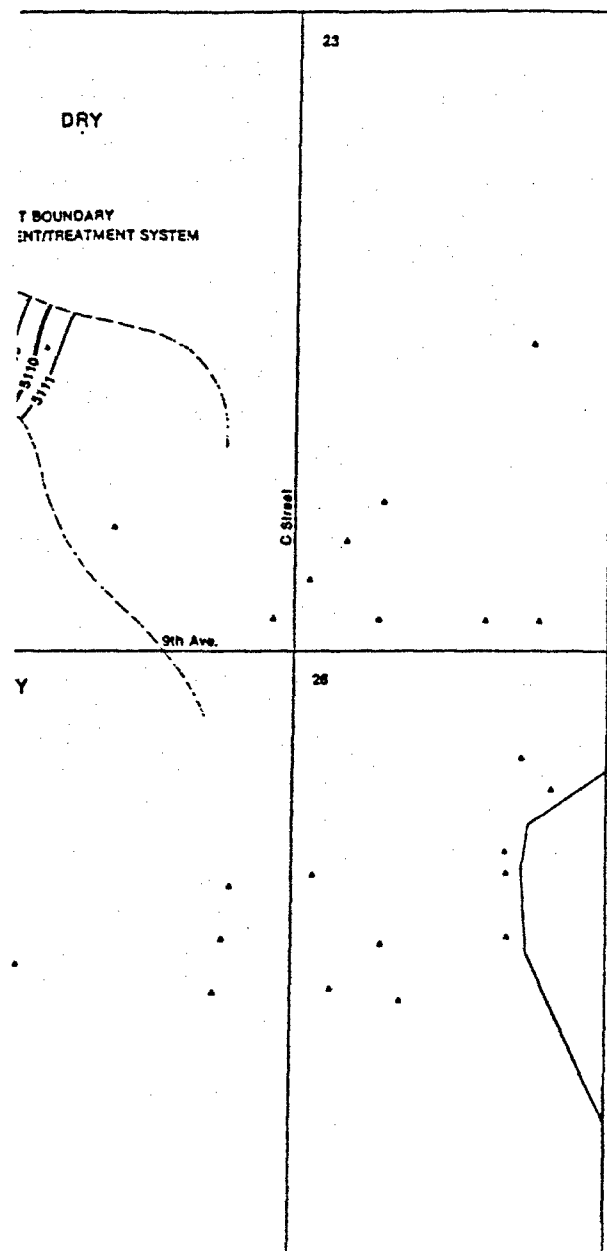
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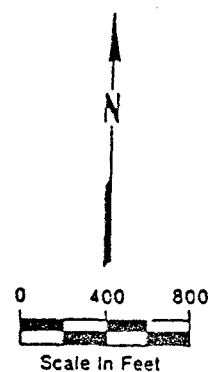
Jre B-27D
BCS, WATER TABLE ELEVATION (FEET,MSL)
QUARTER FY87

ICE:ESE,1988



EXPLANATION

- 5100 — WATER TABLE ELEVATION
CONTOUR LINE
 - - 5100 - - INFERRED WATER TABLE
ELEVATION LINE
 - ▲ ALLUVIAL WELL MONITORED
FOR WATER LEVELS
- CONTOUR INTERVAL : 1 FT.



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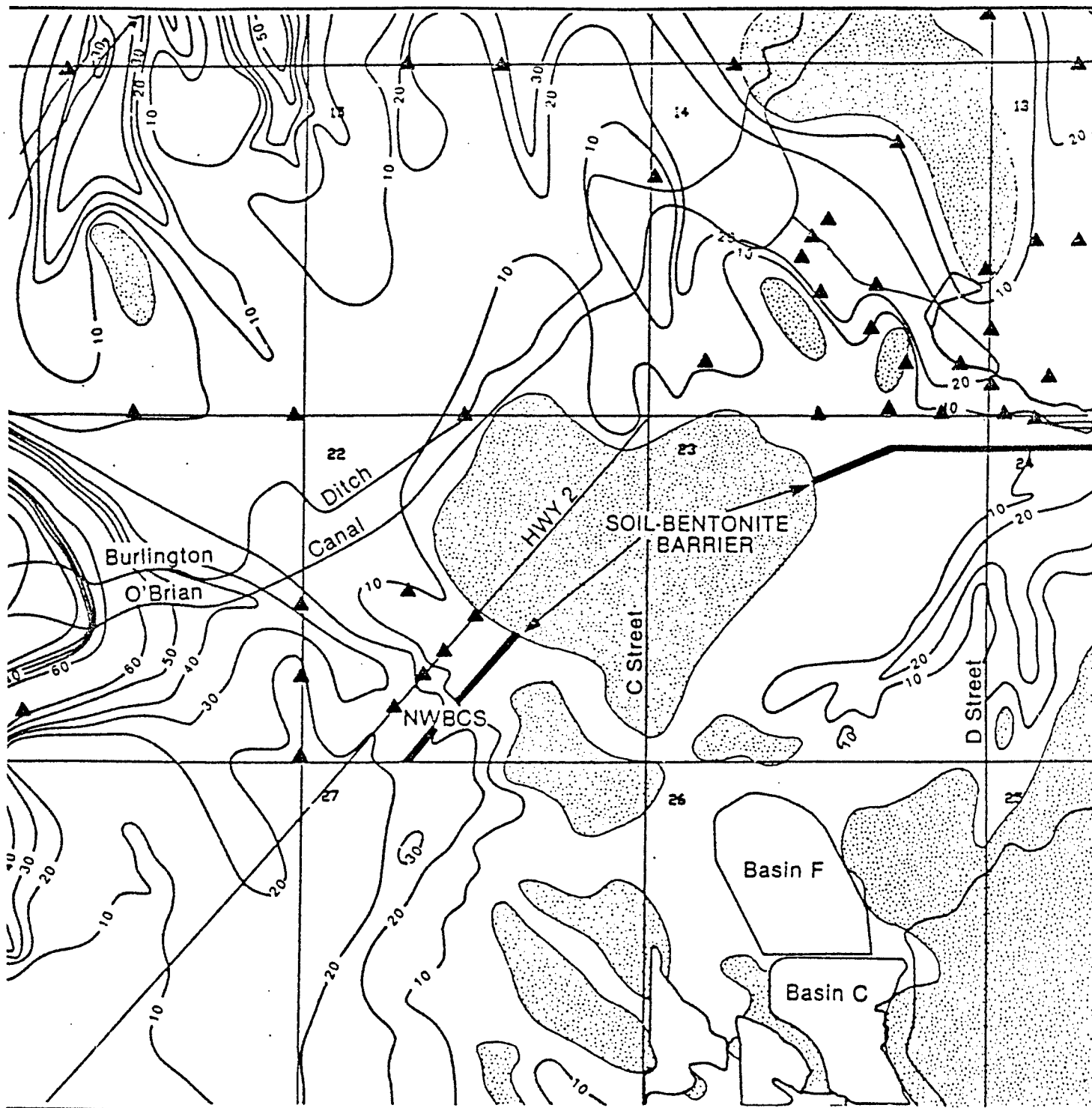
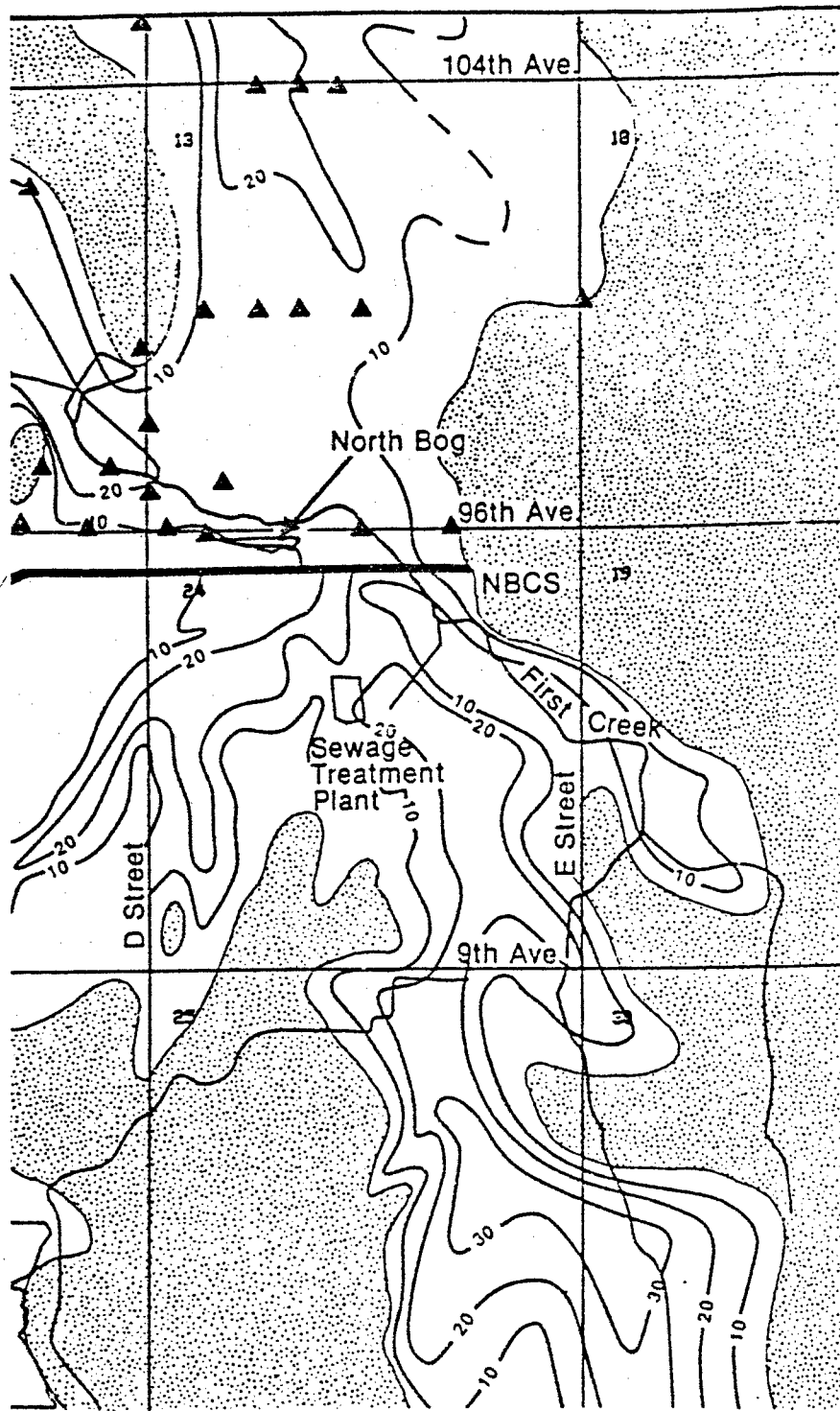


Figure B-28
 GROUNDWATER MAP OF THE THICKNESS OF SATURATED ALLUVIUM
 IN THE NORTHWEST QUARTER, FY87

DATE: ESE, 1988



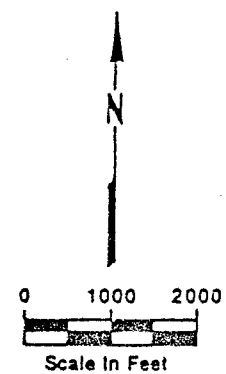
EXPLANATION

—10— THICKNESS OF SATURATED ALLUVIUM CONTOUR INTERVAL

▲ ALLUVIAL MONITORING WELLS MEASURED FOR WATER LEVELS SPRING 1987

SATURATED THICKNESS CALCULATED BY SUBTRACTING BEDROCK ELEVATION FROM WATER TABLE ELEVATION

○ UNSATURATED ALLUVIUM

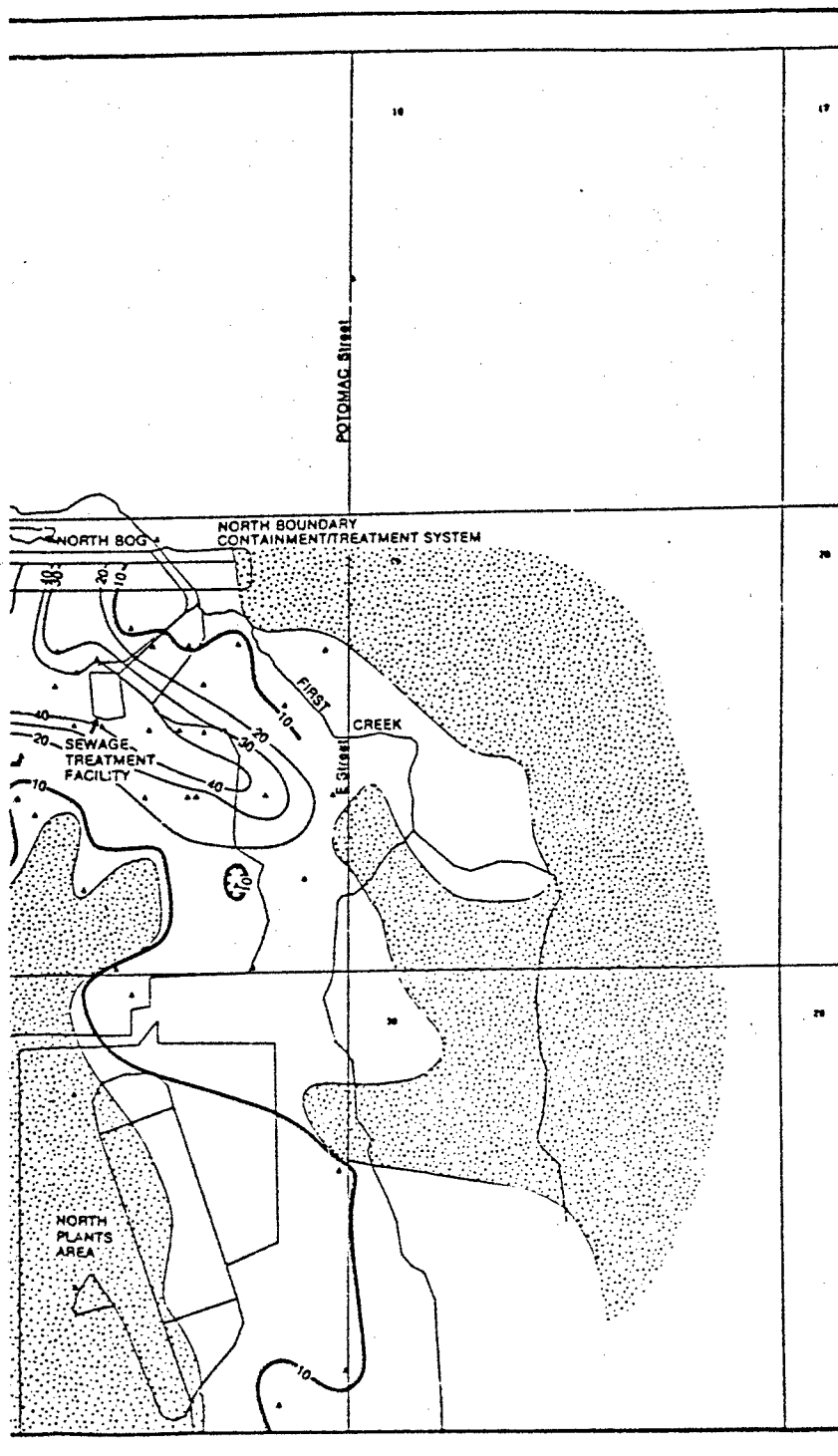


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For Rocky Mountain Arsenal

Aberdeen Proving Ground, Maryland

Figure B-29
CONTOUR MAP OF THE TRANSMISSIVITY OF THE ALLUVIAL AQUIFER
4th QUARTER FY87

URCE:ESE,1988



EXPLANATION

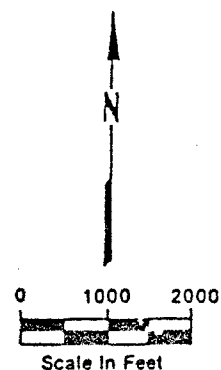
— 10 — TRANSMISSIVITY CONTOUR
INTERVAL (X 10^3 gpd/ft.)

▲ ALLUVIAL MONITORING WELL

HYDRAULIC CONDUCTIVITIES
ESTIMATED FROM LITHOLOGIC
LOGS AND AVAILABLE PUMPING
TEST DATA

ALLUVIAL WATER LEVELS MEASURED
SPRING 1987

○ UNSATURATED ALLUVIUM



Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

Aberdeen Proving Ground, Maryland

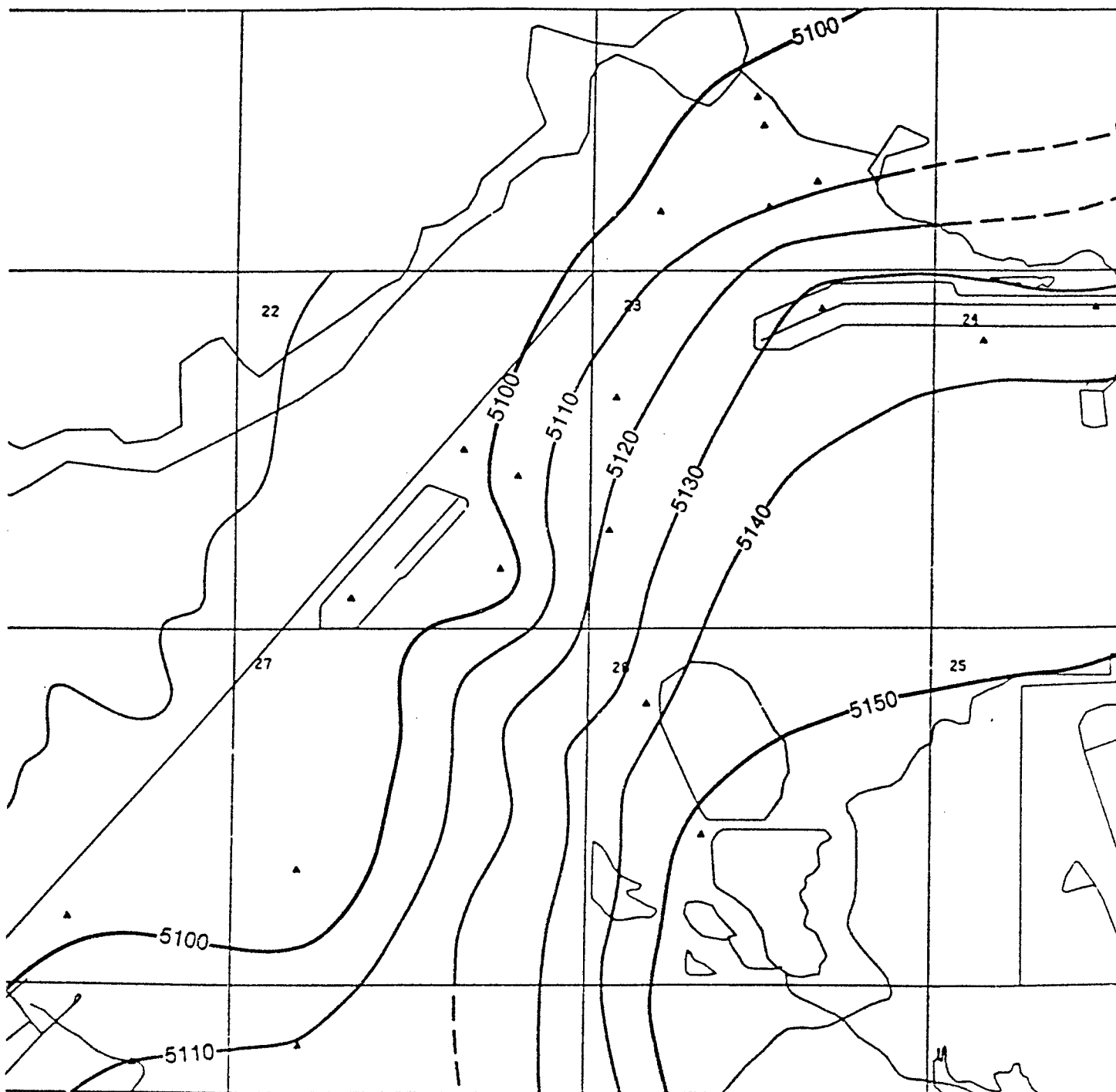
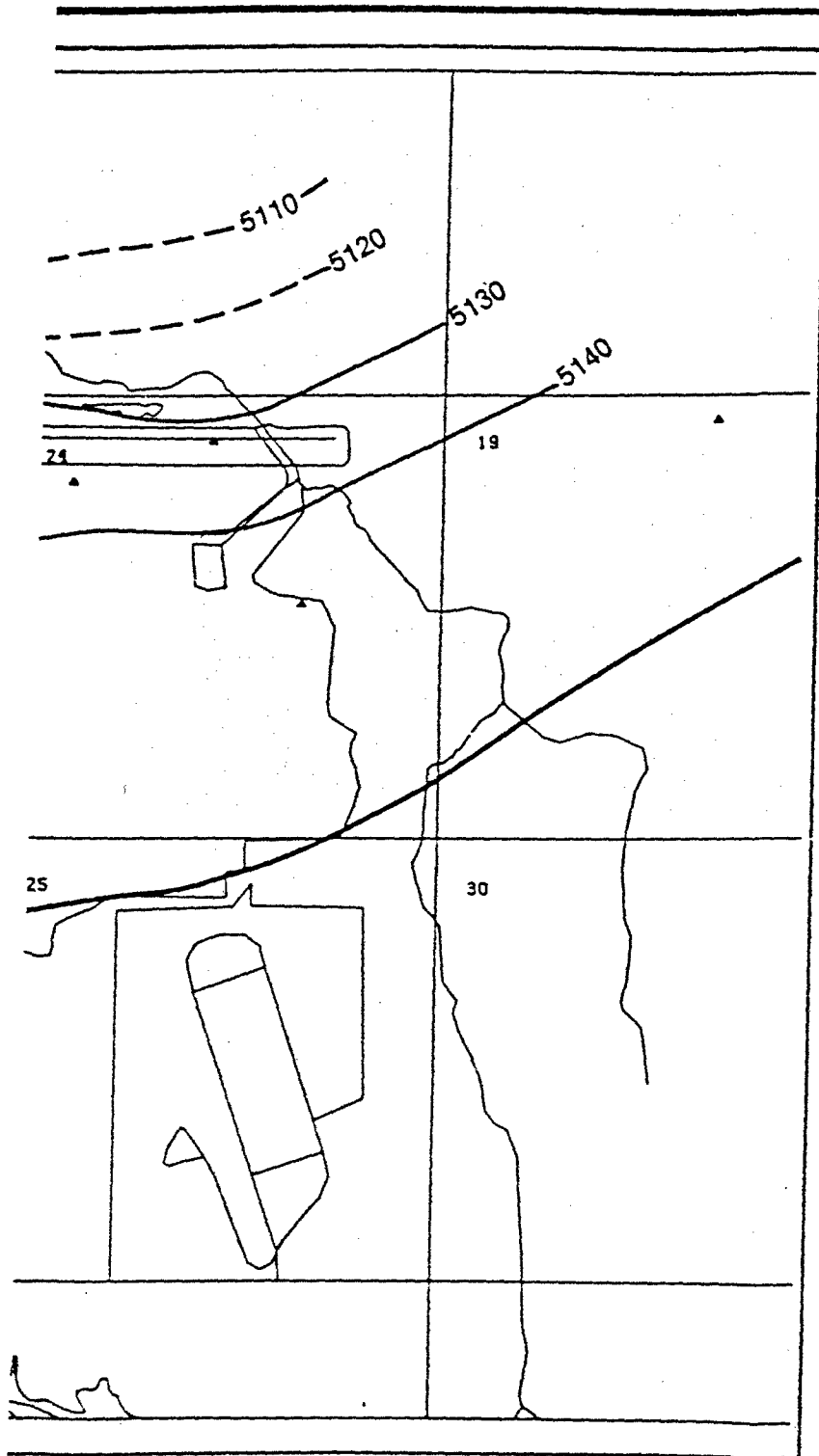


Figure B-30
TENTIMETRIC SURFACE, DENVER FORMATION SAND ZONE 4
3 QUARTER FY87

RCE:ESE, 1988

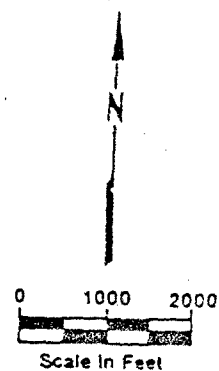


EXPLANATION

- 5140 — POTENTIOMETRIC SURFACE CONTOUR
INTERVAL
- - - 5140 - - - POTENTIOMETRIC SURFACE CONTOUR
INTERVAL INFERRED

▲ DENVER FORMATION SAND ZONE 4
MONITORING WELL

WATER LEVELS COLLECTED
SPRING 1987



Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

Aberdeen Proving Ground, Maryland

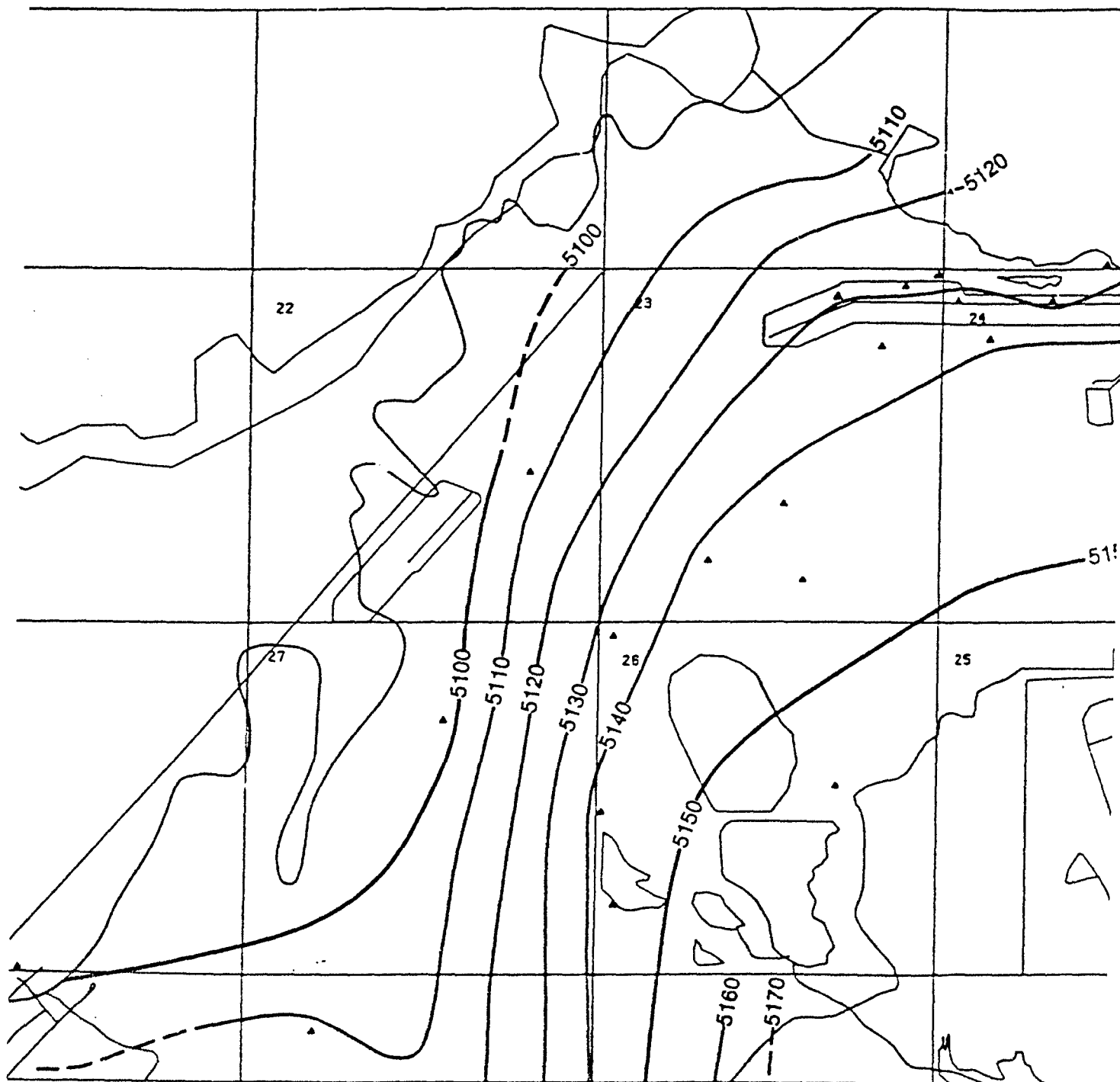
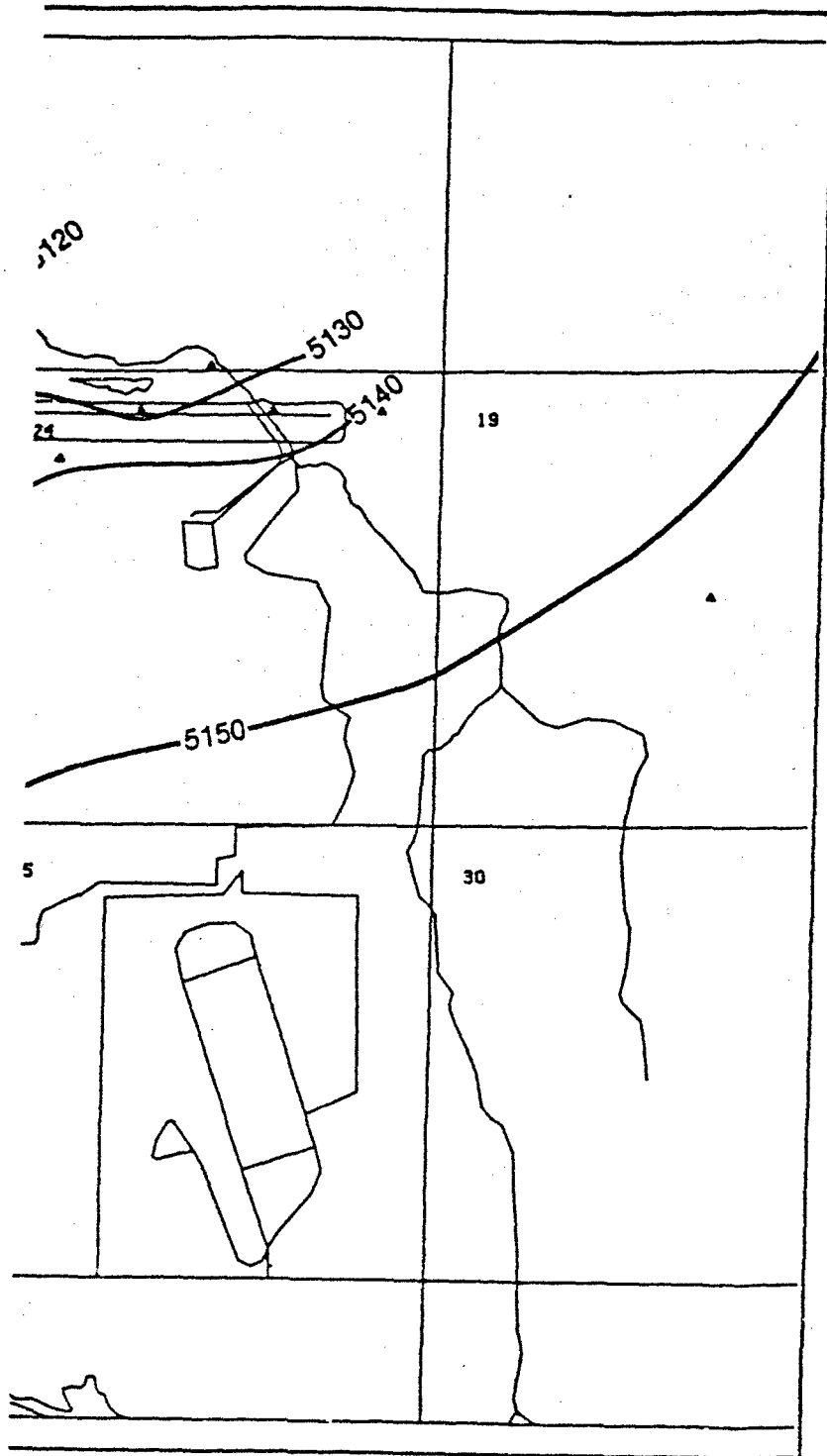


Figure B-31
 POTENTIOMETRIC SURFACE, DENVER FORMATION SAND ZONE 3
 3D QUARTER FY87

SOURCE: ESE, 1988



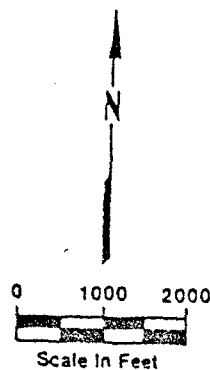
EXPLANATION

— 5140 — POTENTIOMETRIC SURFACE CONTOUR INTERVAL

- - - 5140 - - - POTENTIOMETRIC SURFACE CONTOUR INTERVAL INFERRED

▲ DENVER FORMATION SAND ZONE 3 MONITORING WELL

WATER LEVELS COLLECTED SPRING 1987



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Aberdeen Proving Ground, Maryland

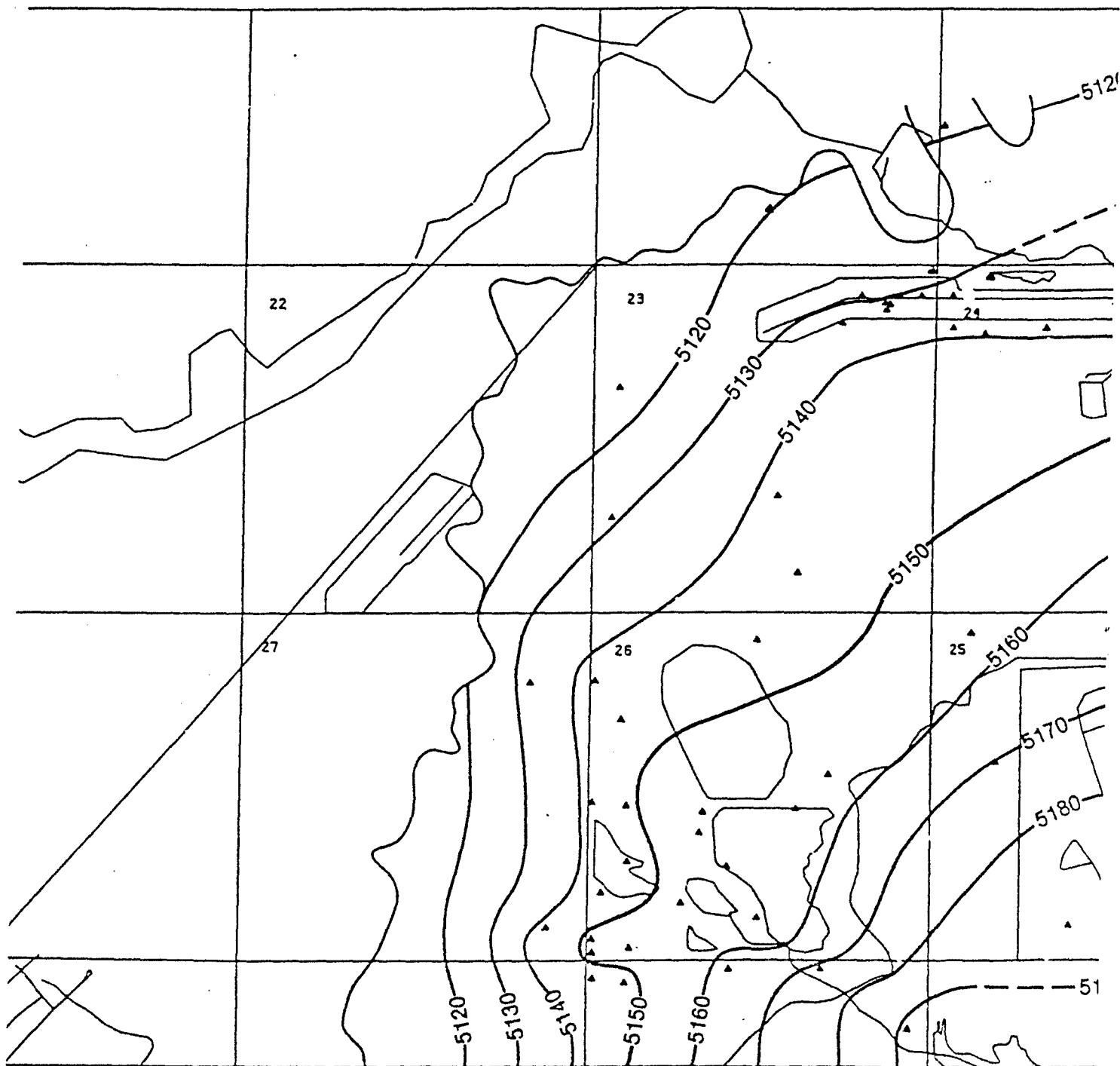
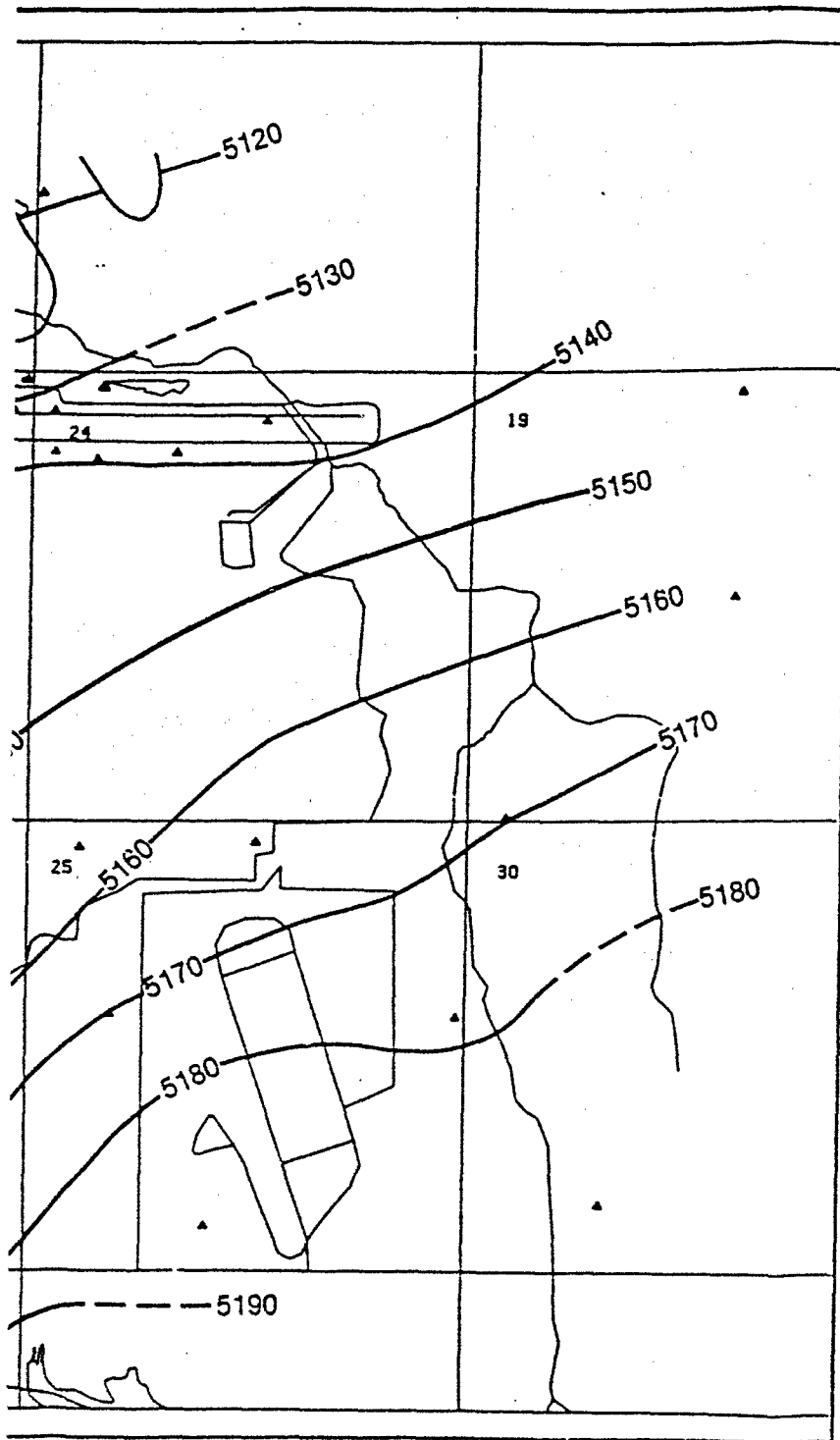


Figure B-32
TOPOMETRIC SURFACE, DENVER FORMATION SAND ZONE 2
3RD QUARTER FY87

SOURCE: ESE, 1988



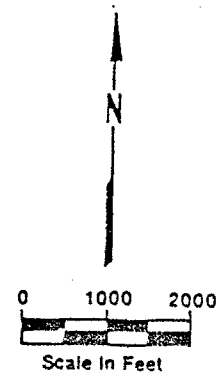
EXPLANATION

—5140— POTENTIOMETRIC SURFACE CONTOUR INTERVAL

- - -5140- - - POTENTIOMETRIC SURFACE CONTOUR INTERVAL INFERRED

▲ DENVER FORMATION SAND ZONE 2 MONITORING WELL

WATER LEVELS COLLECTED SPRING 1987



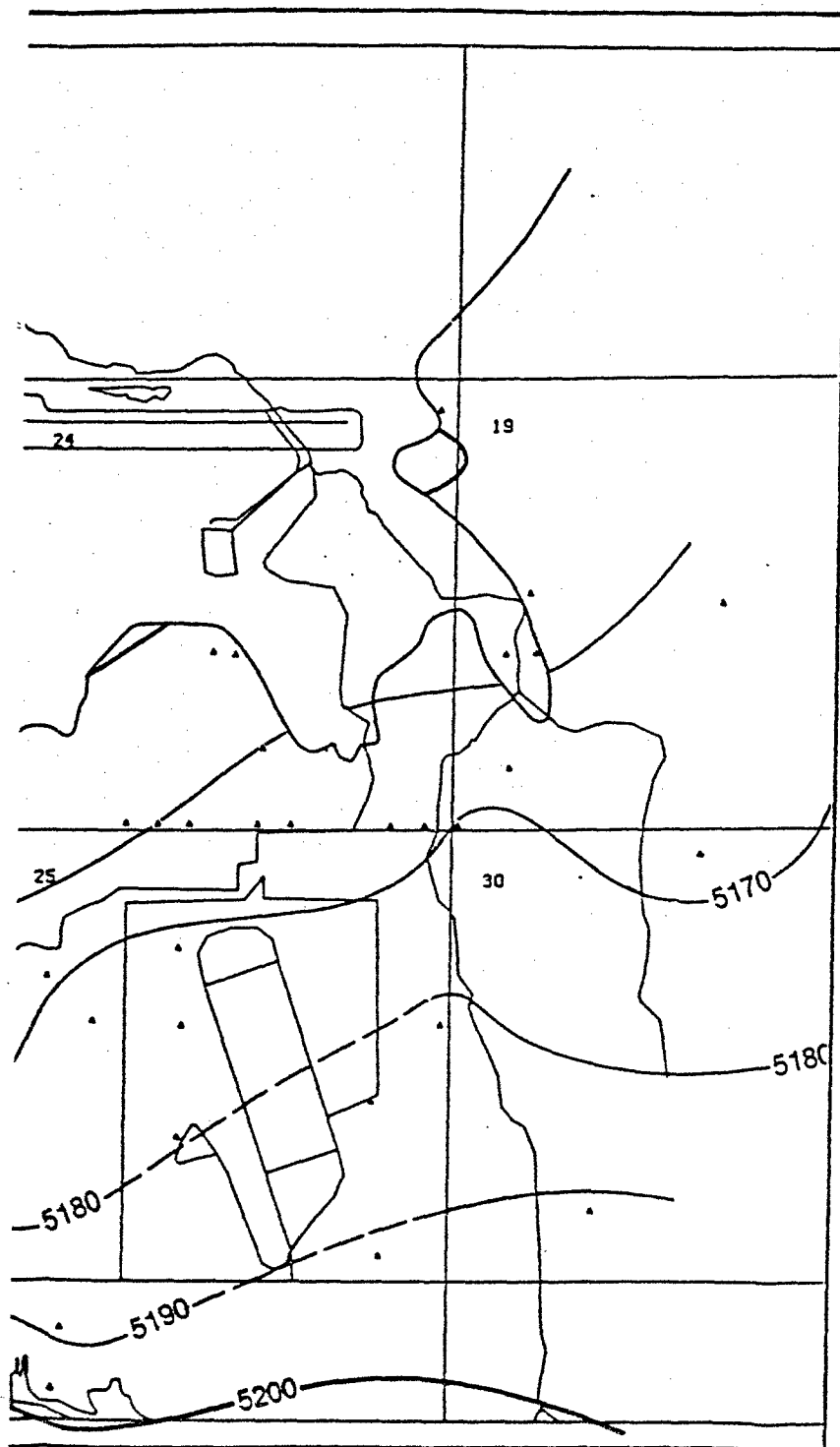
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Figure B-33
POTENTIOMETRIC SURFACE, DENVER FORMATION SAND ZONE 1
1RD QUARTER FY 1987

JRCE:ESE, 1988



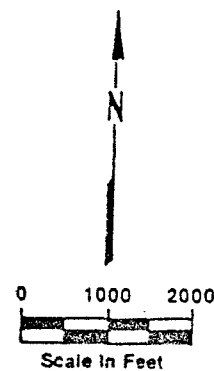
EXPLANATION

— 5140 — POTENTIOMETRIC SURFACE CONTOUR
INTERVAL

- - - 5140 - - - POTENTIOMETRIC SURFACE CONTOUR
INTERVAL INFERRED

▲ DENVER FORMATION SAND ZONE 1
MONITORING WELL

WATER LEVELS COLLECTED
SPRING 1987



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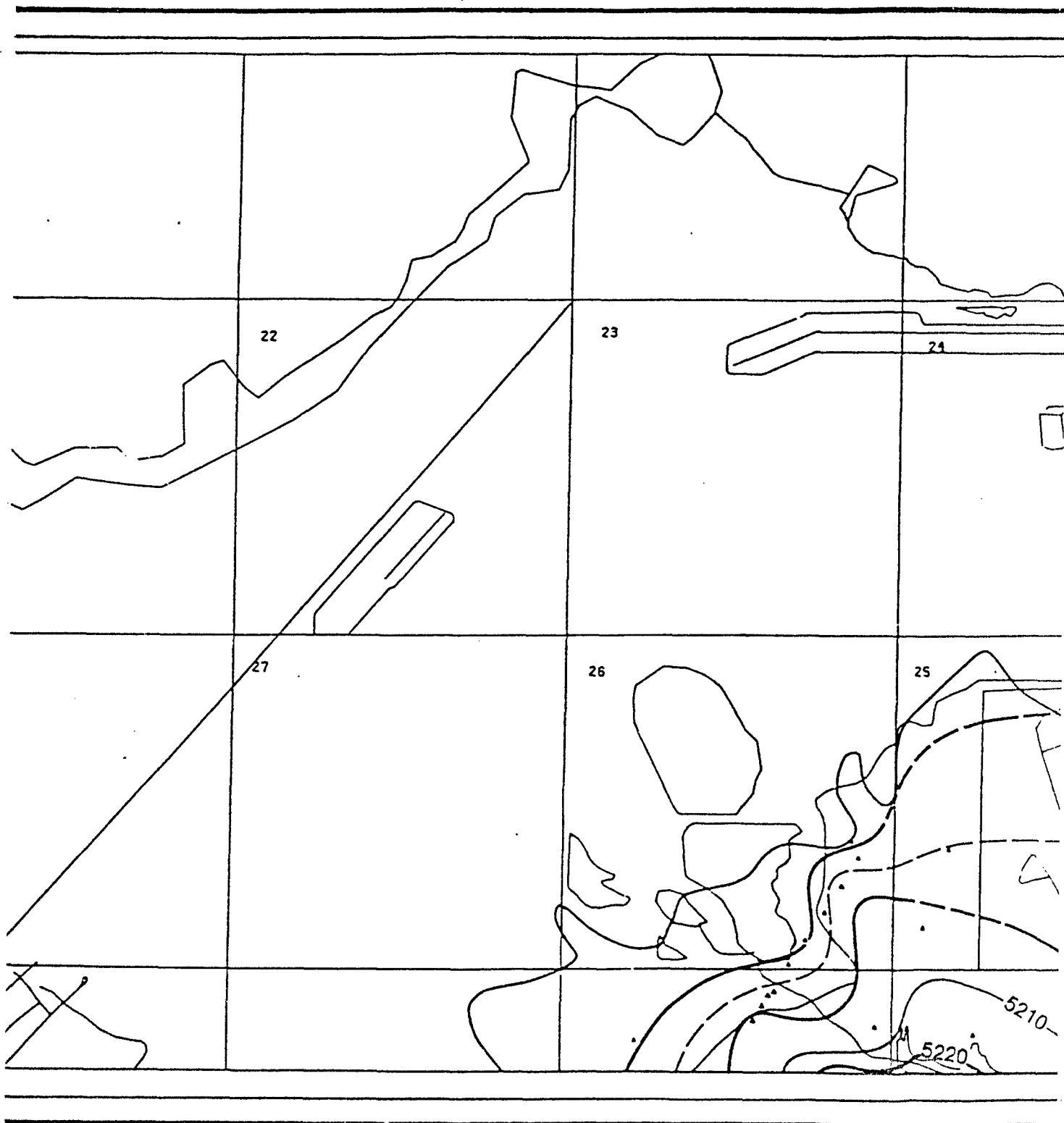
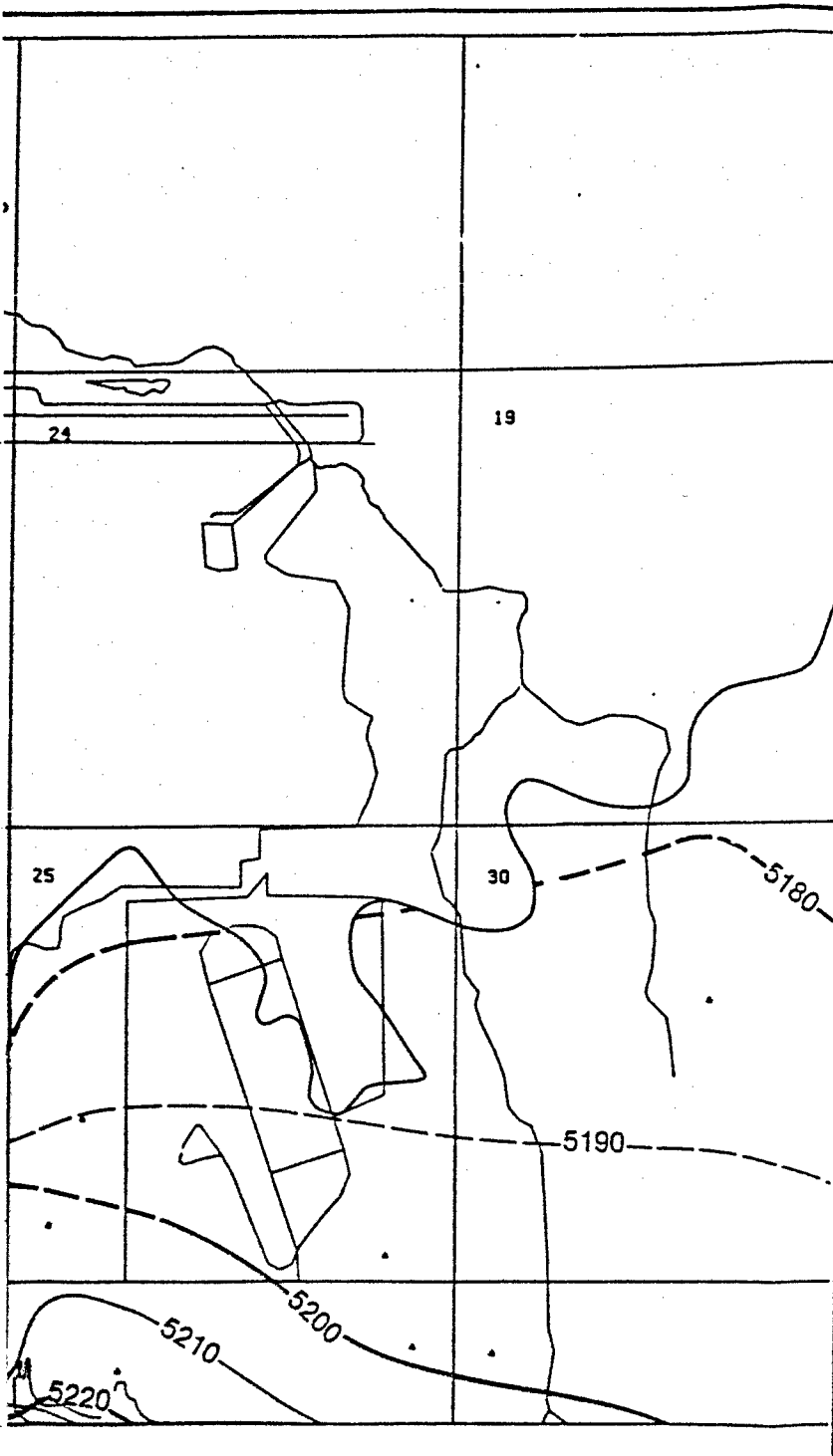


Figure B-34
Topographic Surface, Denver Formation Sand Zone 1 U
Third Quarter FY 1987

URCE:ESE,1988

EXPLANATION

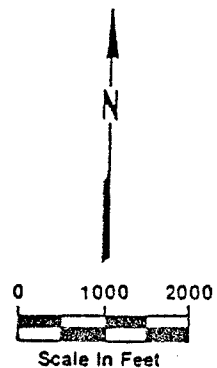


—5140— POTENTIOMETRIC SURFACE CONTOUR
INTERVAL

- - -5140- - - POTENTIOMETRIC SURFACE CONTOUR
INTERVAL INFERRED

▲ DENVER FORMATION SAND ZONE 1U
MONITORING WELL

WATER LEVELS COLLECTED
SPRING 1987



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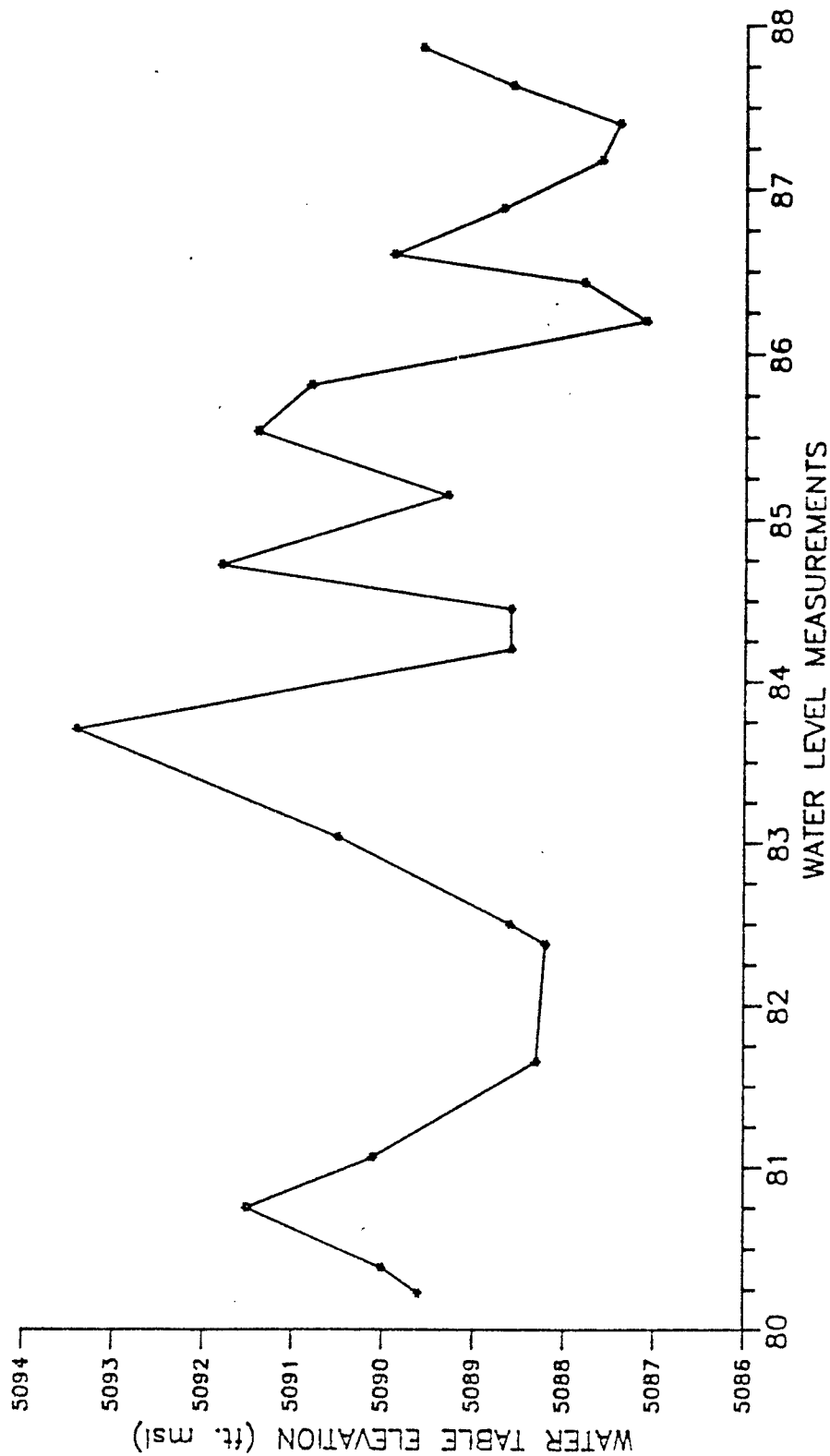
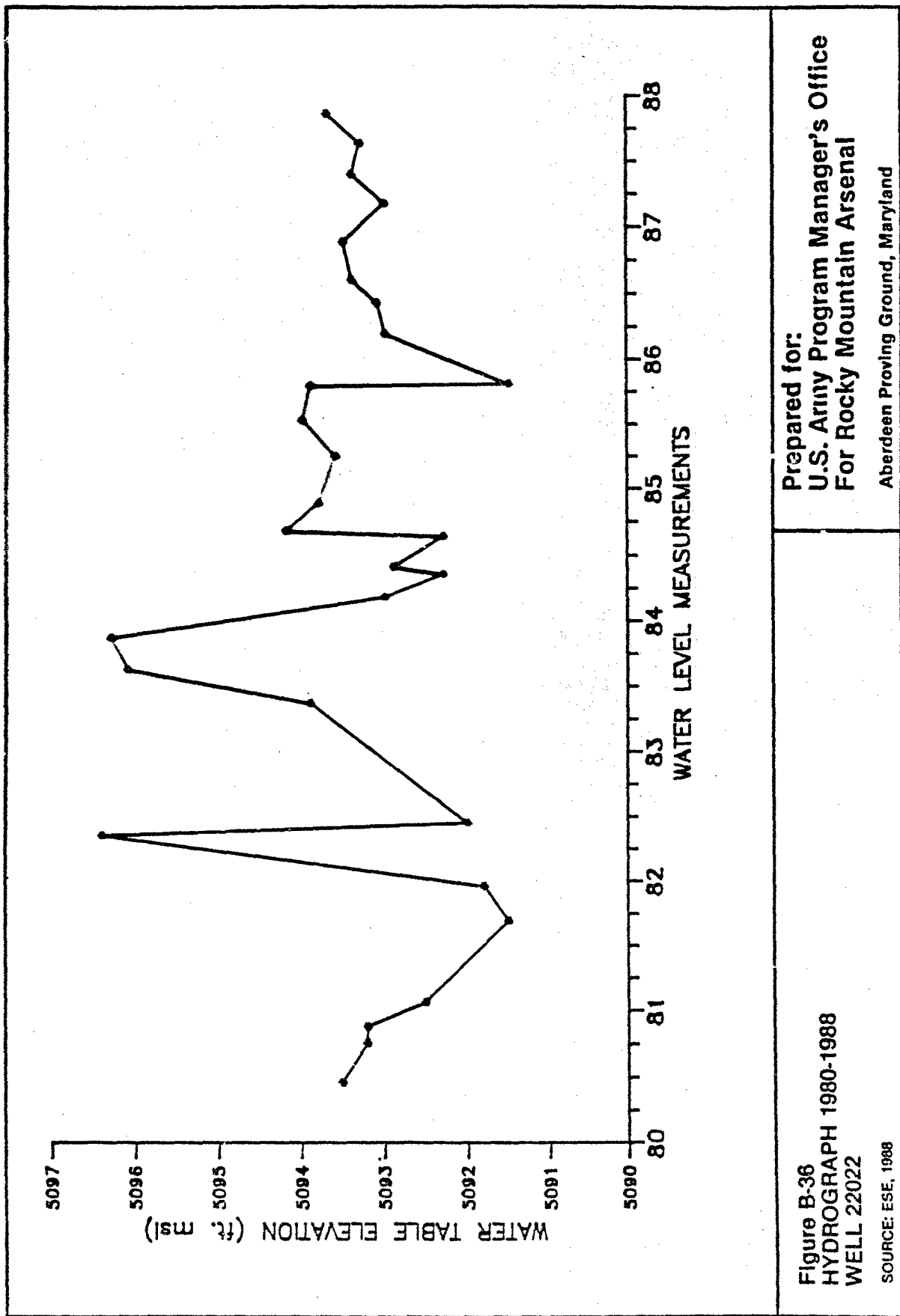


Figure B-35
HYDROGRAPH 1980-1988
WELL 22017

SOURCE: ESE, 1988

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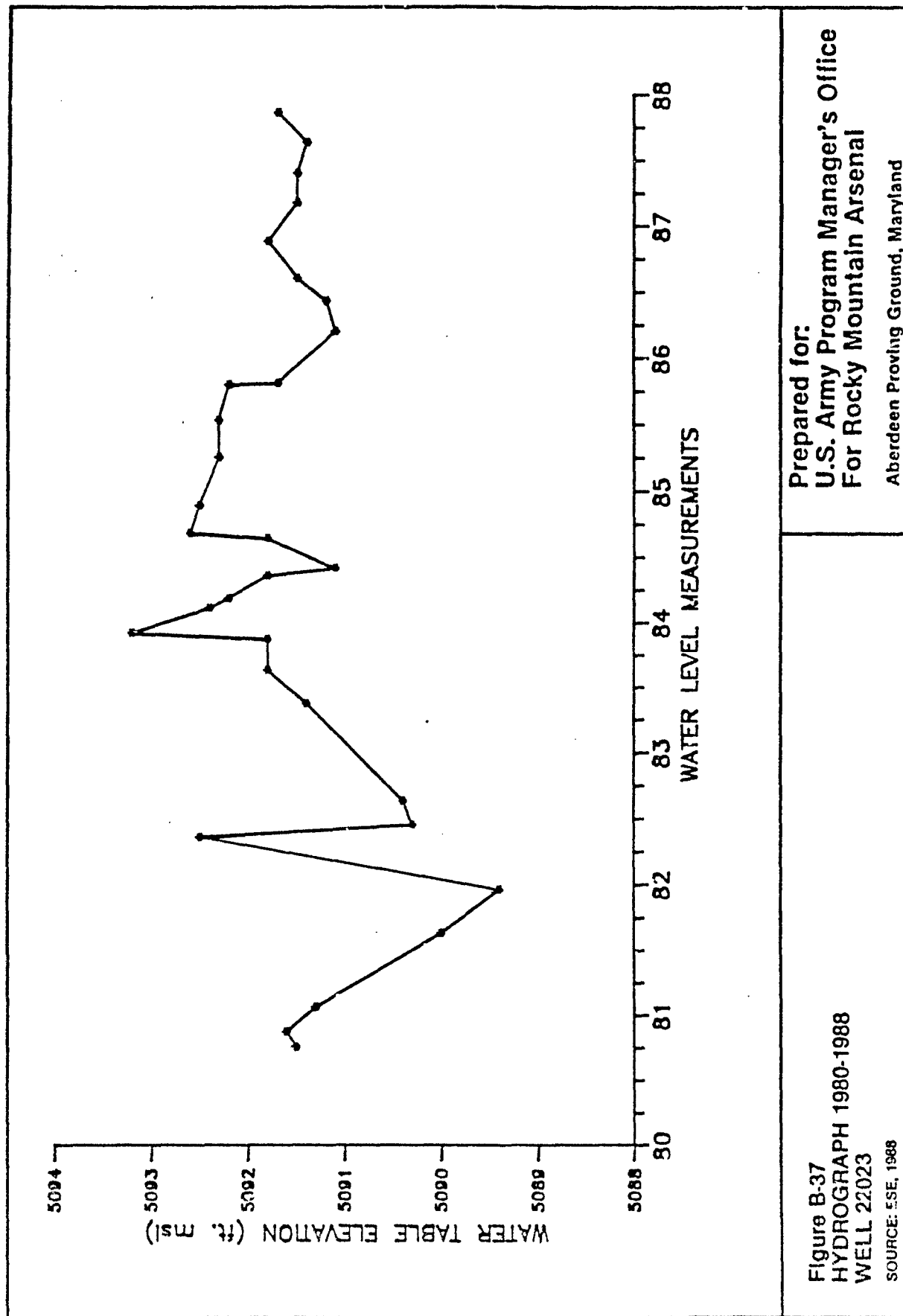
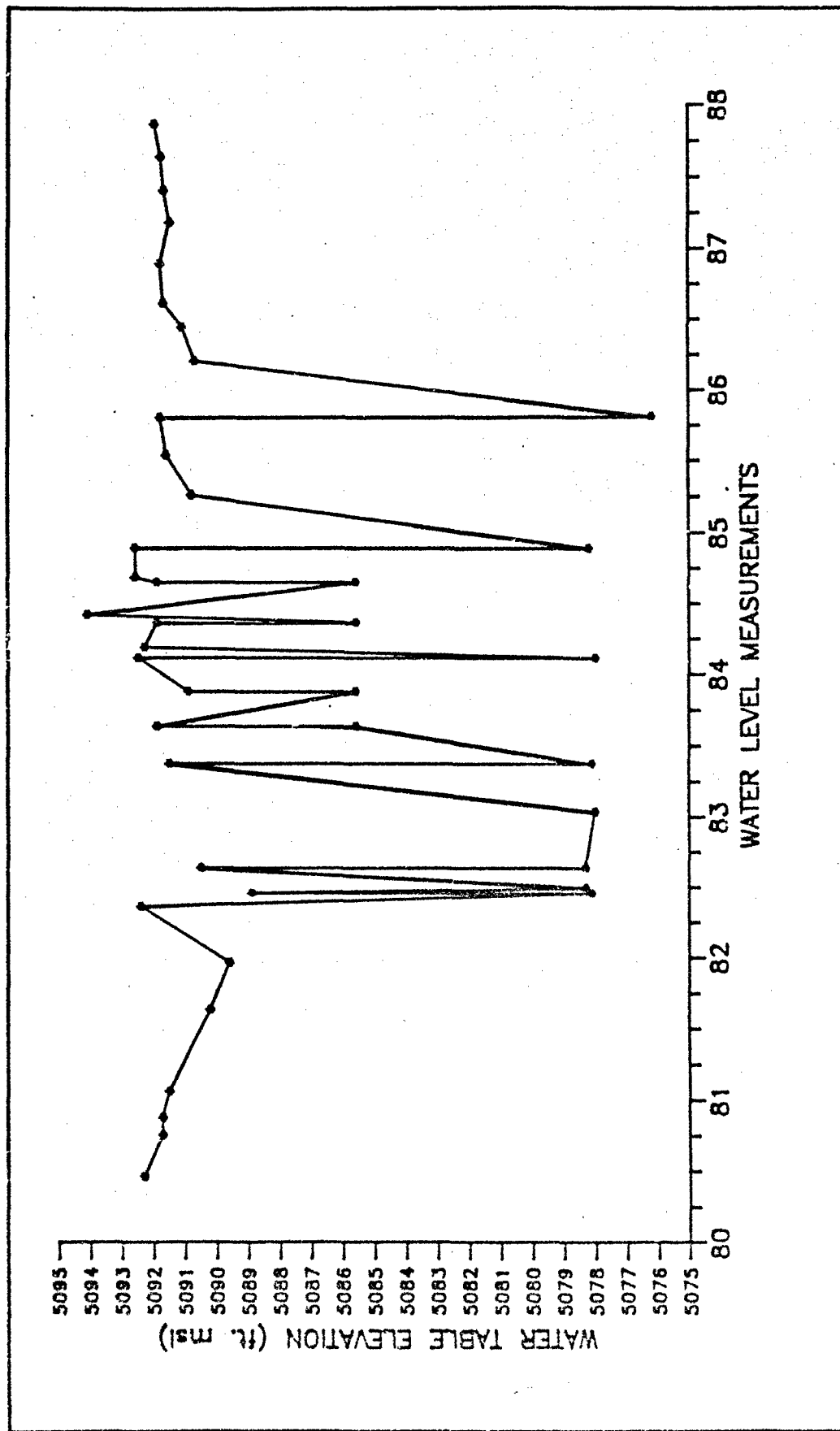


Figure B-37
HYDROGRAPH 1980-1988
WELL 22023
SOURCE: ESE, 1988

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Figure B-38
 HYDROGRAPH 1980-1988
 WELL 22024
 SOURCE: ESE, 1988

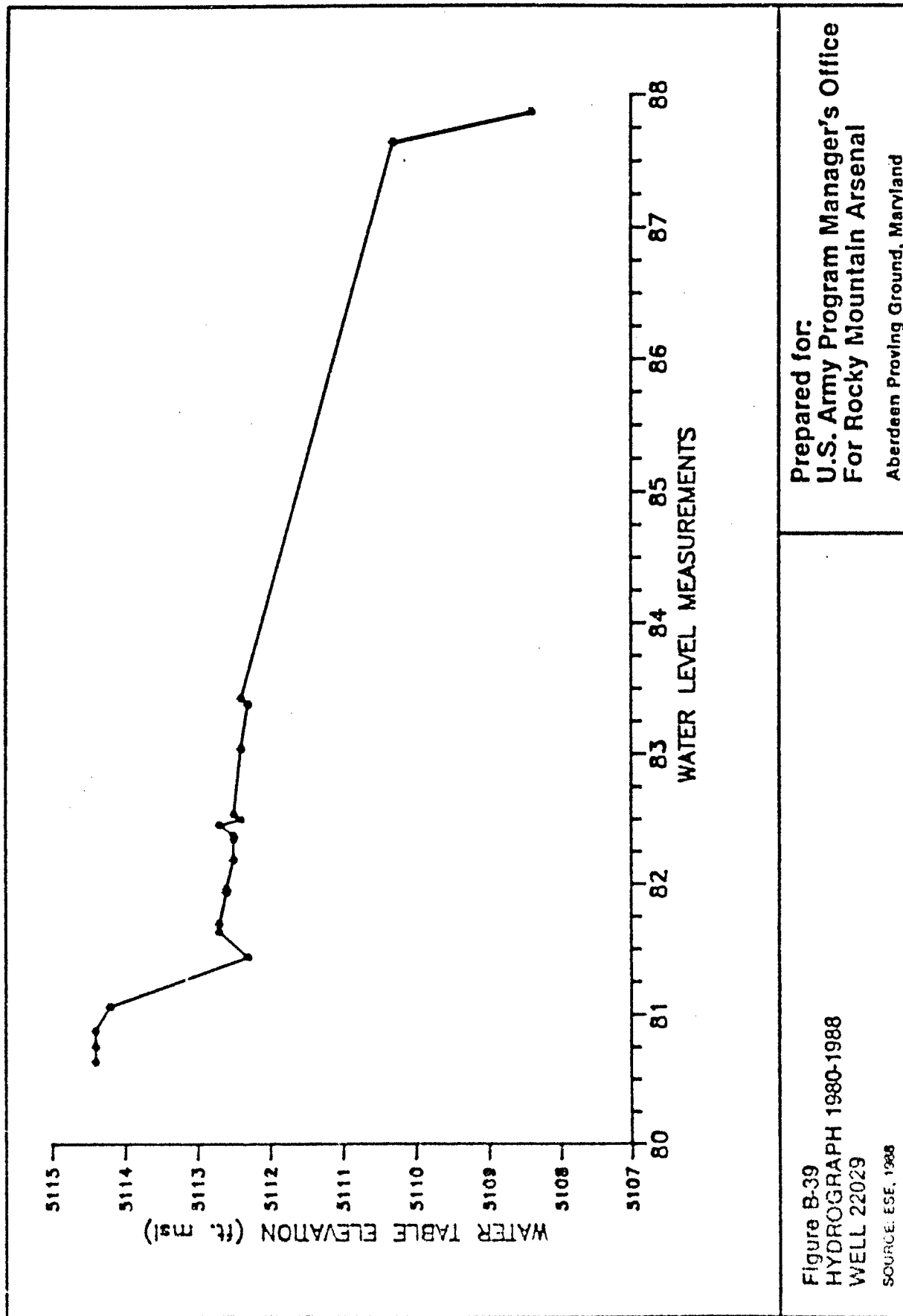
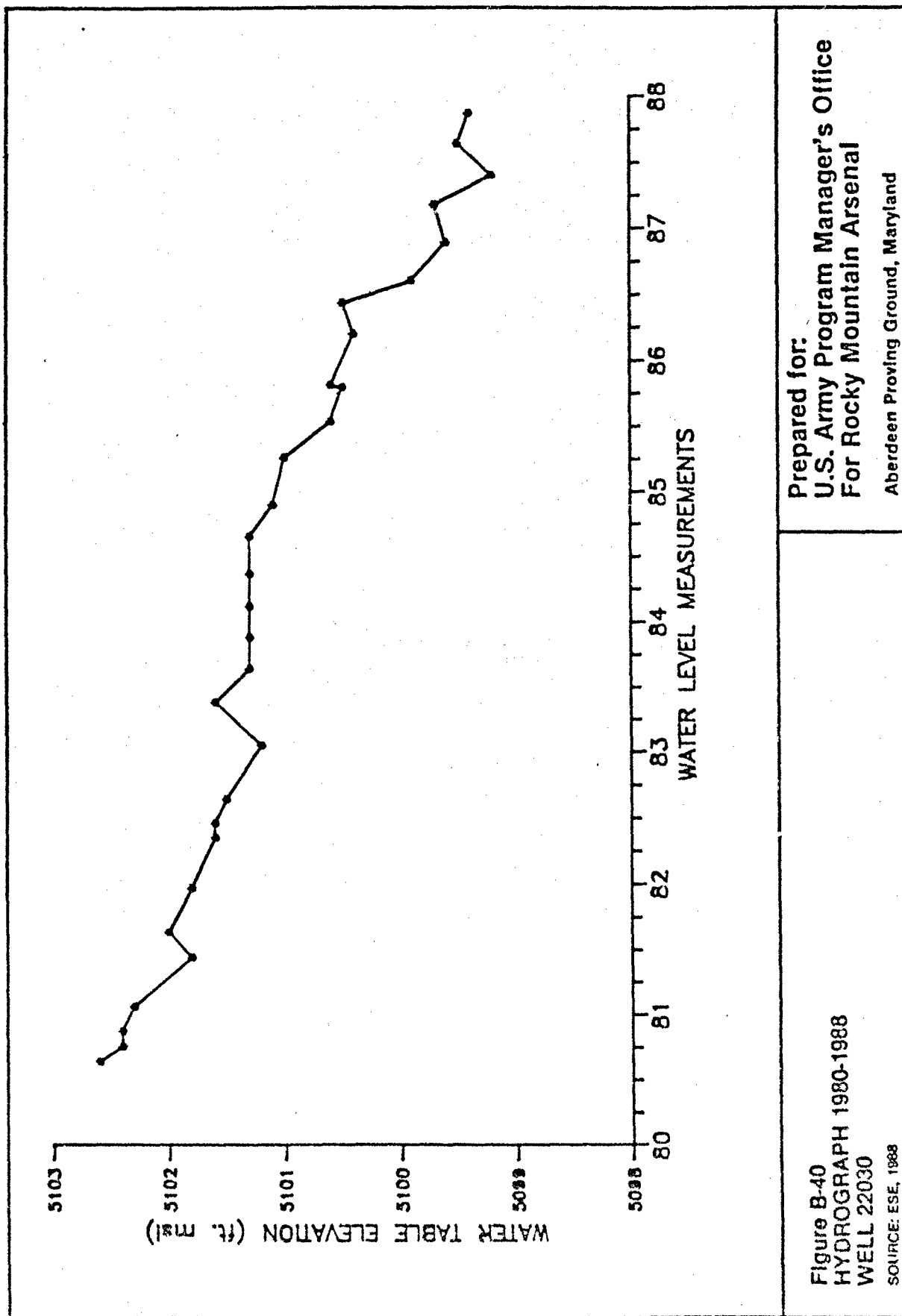


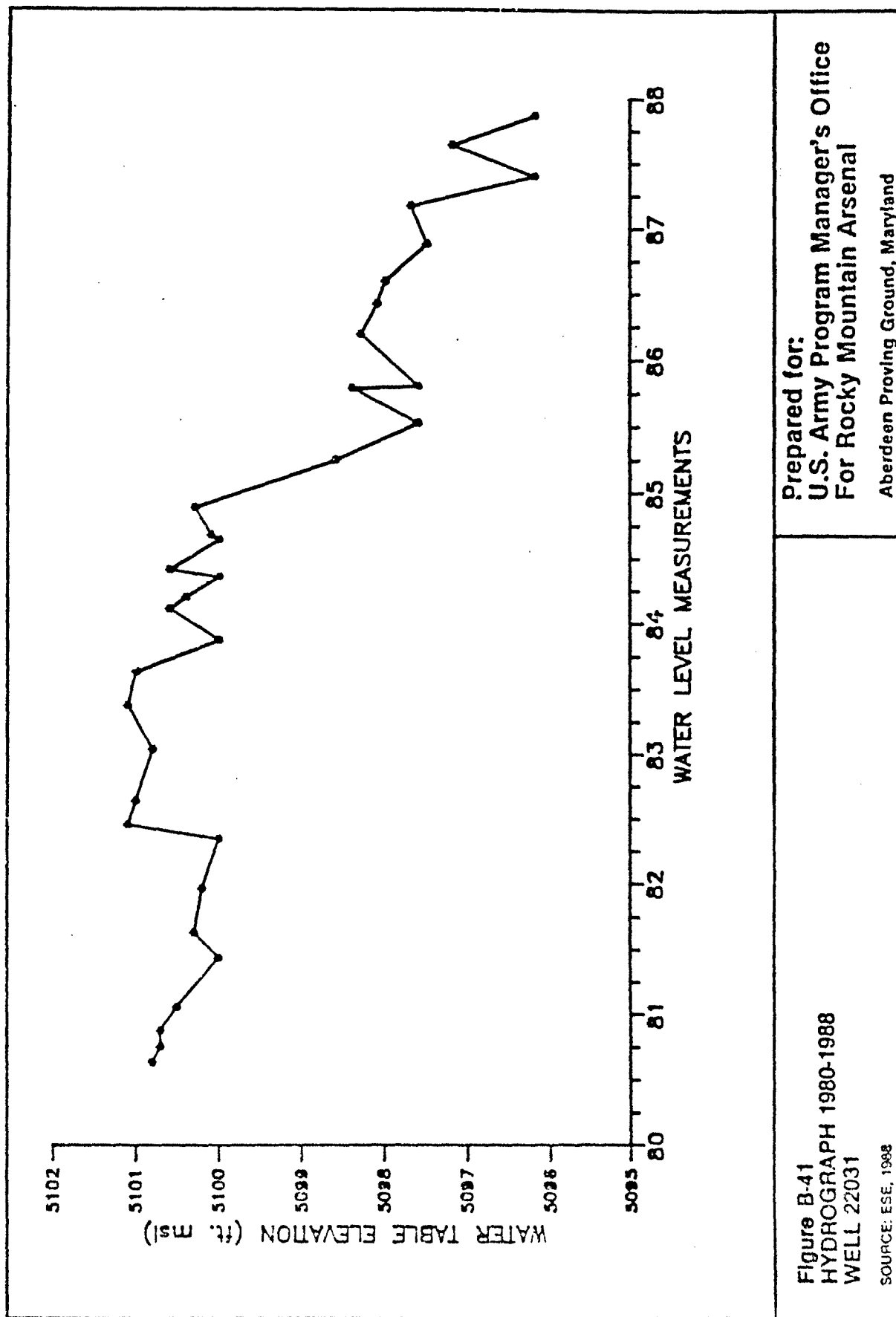
Figure B-39
HYDROGRAPH 1980-1988
WELL 22029
SOURCE: ESE, 1988

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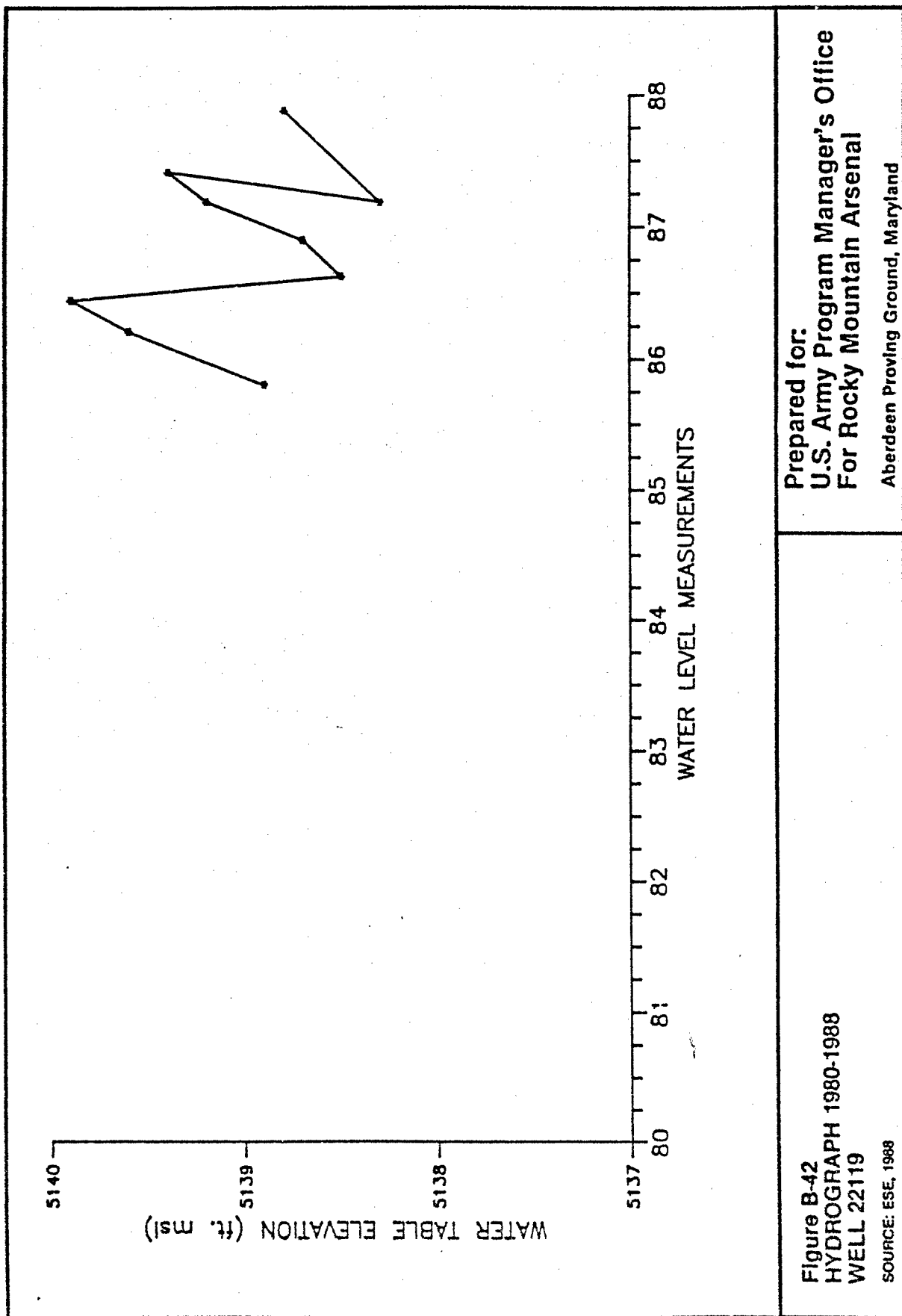
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Figure B-40
HYDROGRAPH 1980-1988
WELL 22030
SOURCE: ESE, 1988



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Figure B-41
HYDROGRAPH 1980-1988
WELL 22031
SOURCE: ESE, 1988



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Figure B-42
HYDROGRAPH 1980-1988
WELL 22119
SOURCE: ESE, 1988

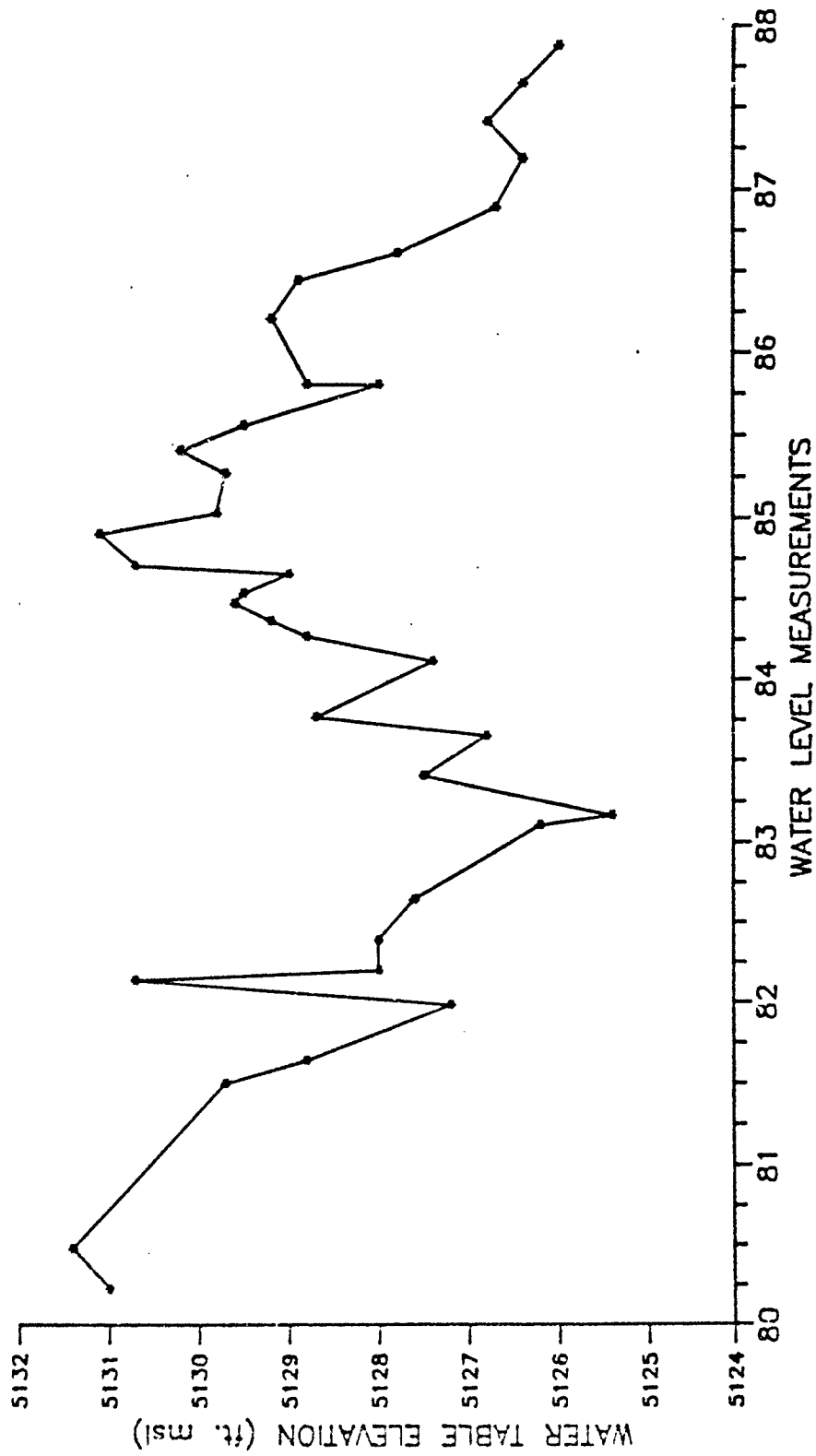
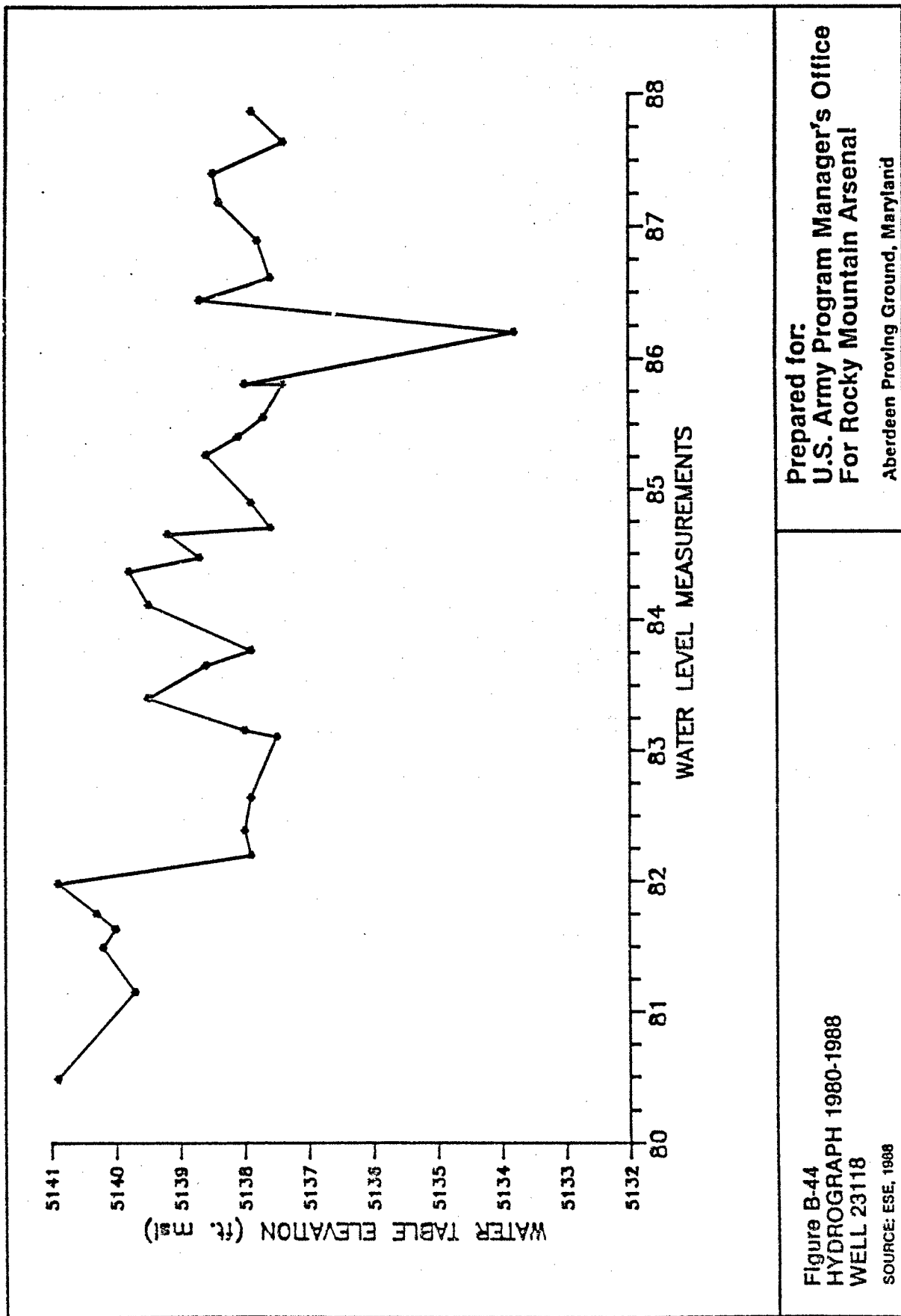


Figure B-43
HYDROGRAPH 1980-1988
WELL 23047

SOURCE: ESE, 1988

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Figure B-44
HYDROGRAPH 1980-1988
WELL 23118
SOURCE: ESE, 1988

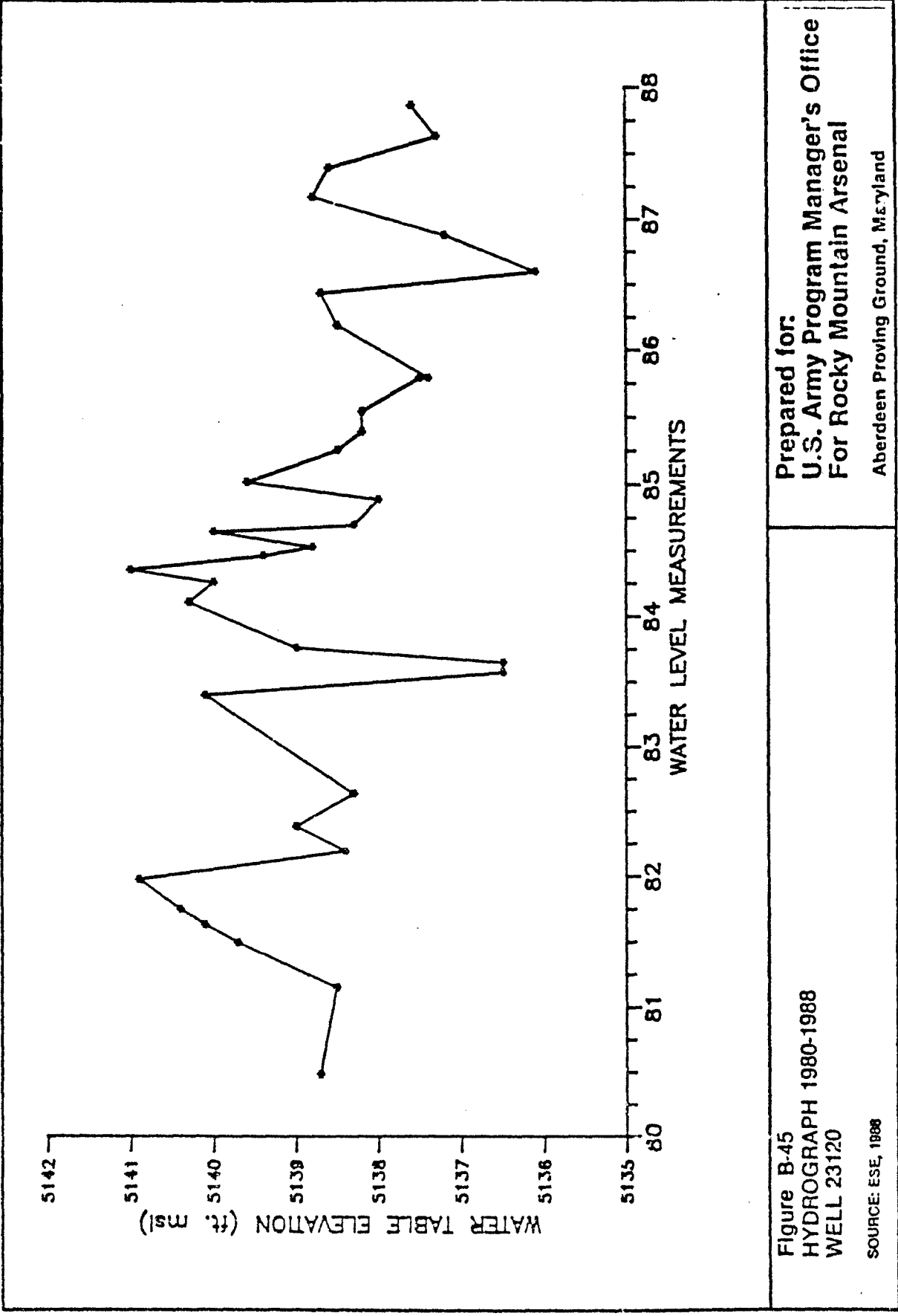
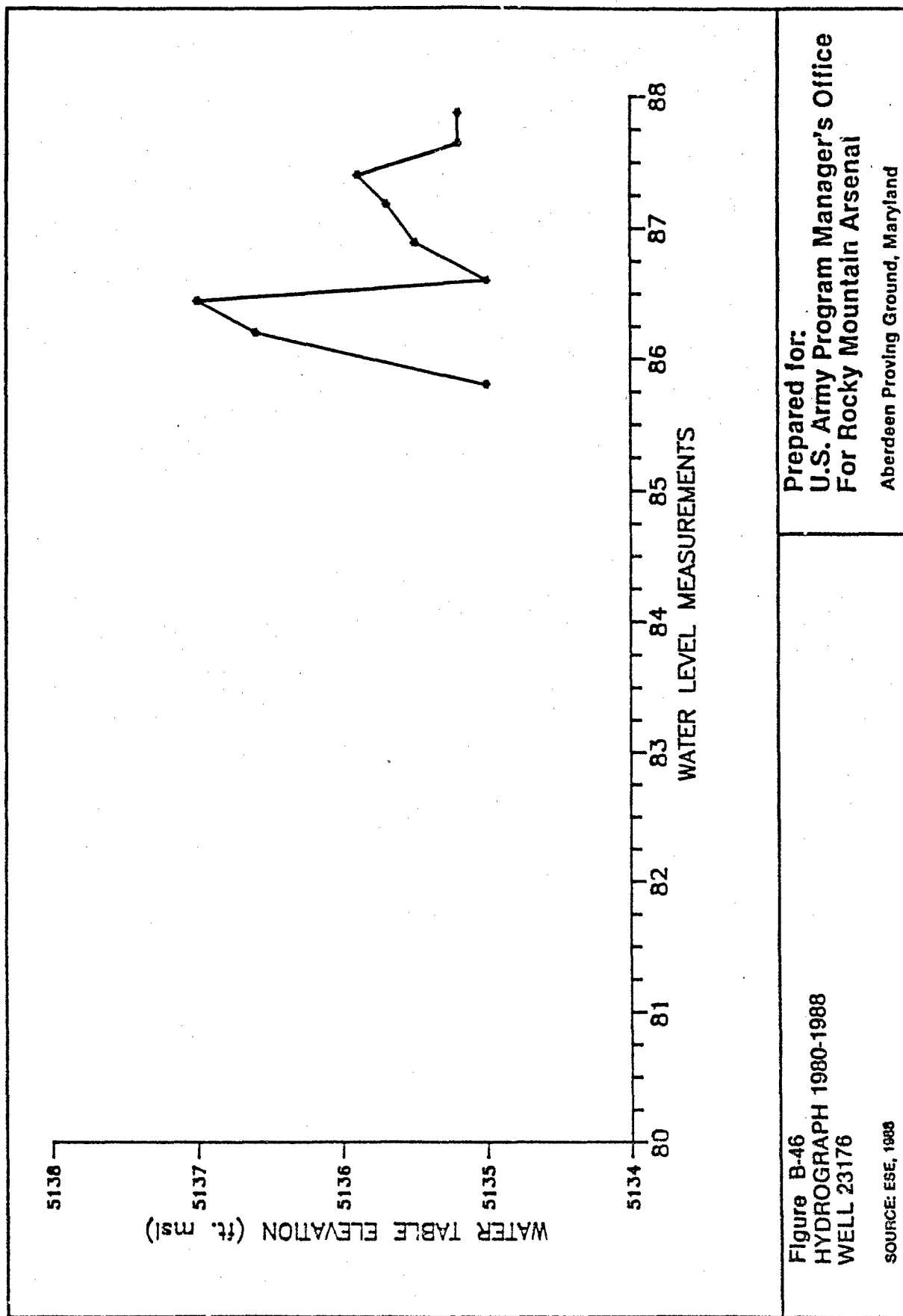
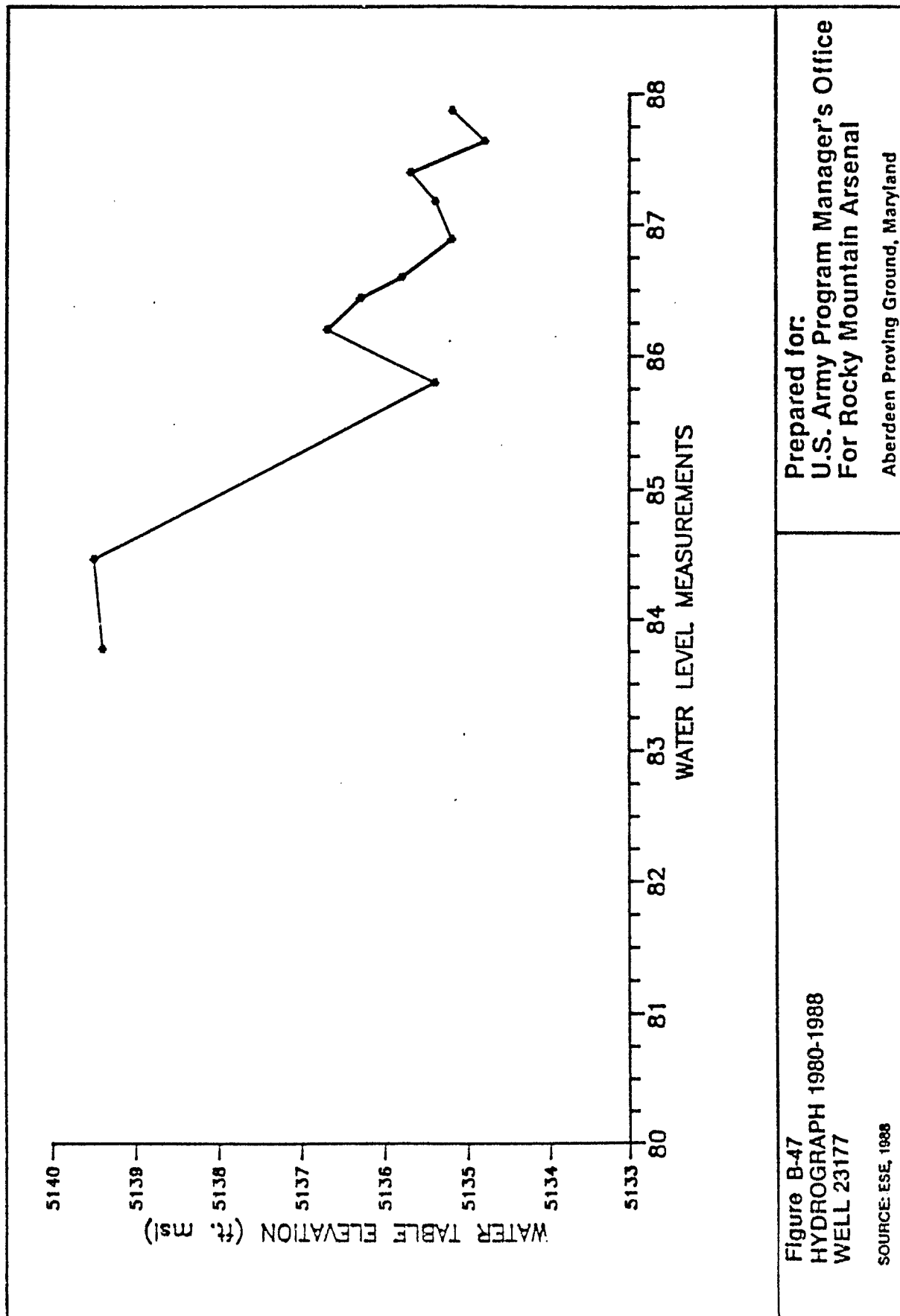


Figure B-45
HYDROGRAPH 1980-1988
WELL 23120

SOURCE: ESE, 1988

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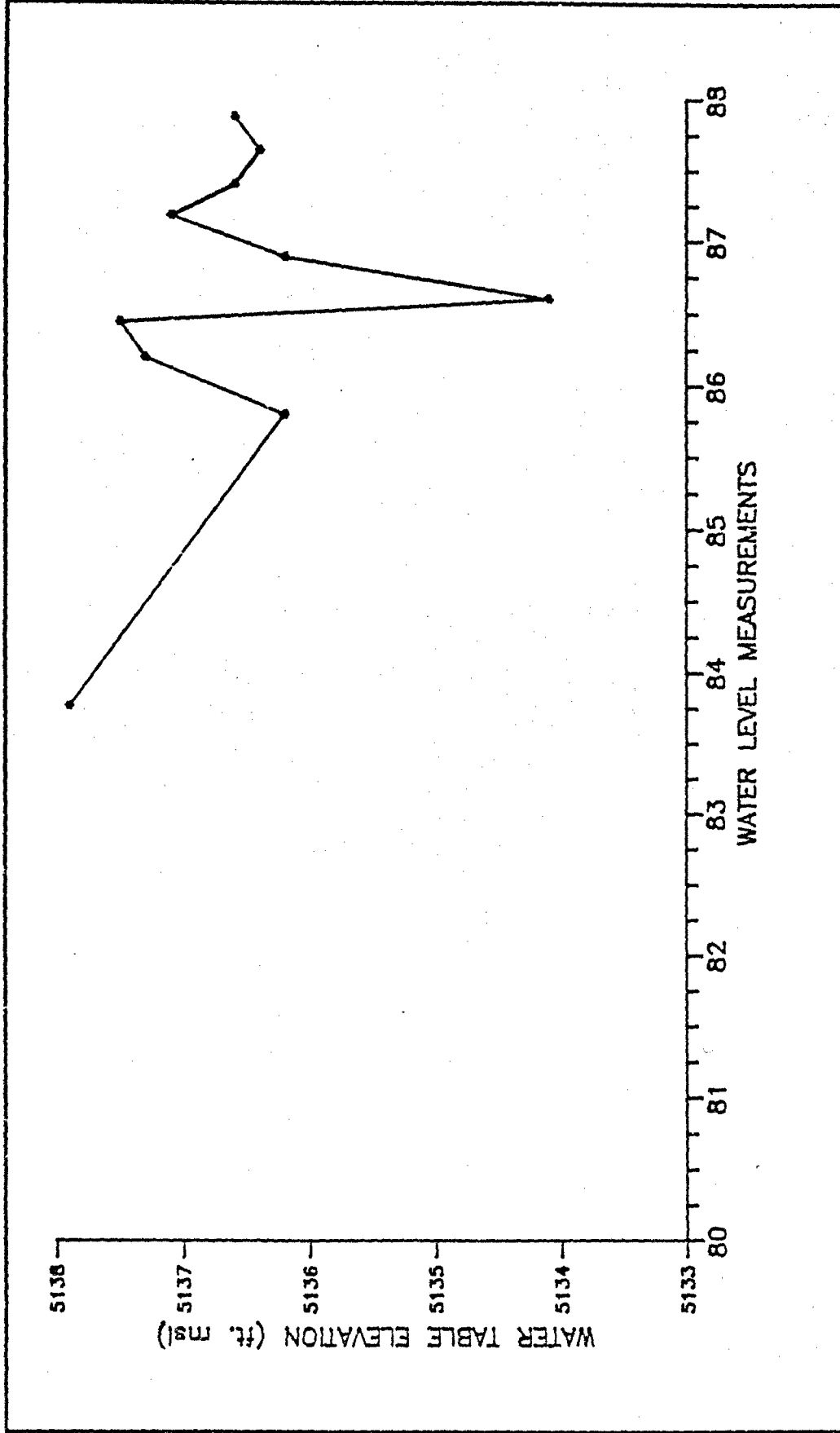


Figure B-48
HYDROGRAPH 1980-1988
WELL 23178
SOURCE: ESE, 1988

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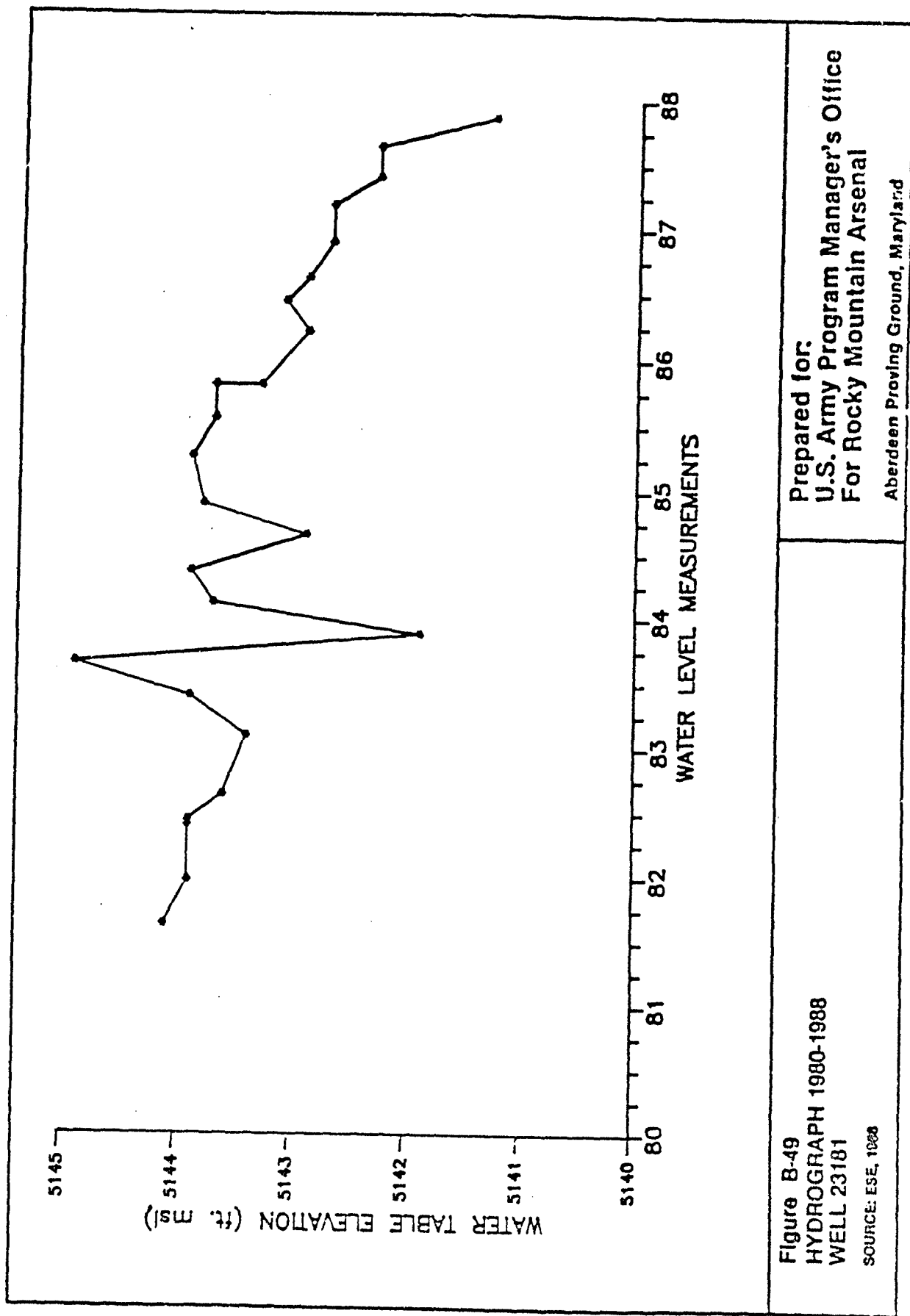


Figure B-49
HYDROGRAPH 1980-1988
WELL 23181
SOURCE: ESE, 1008

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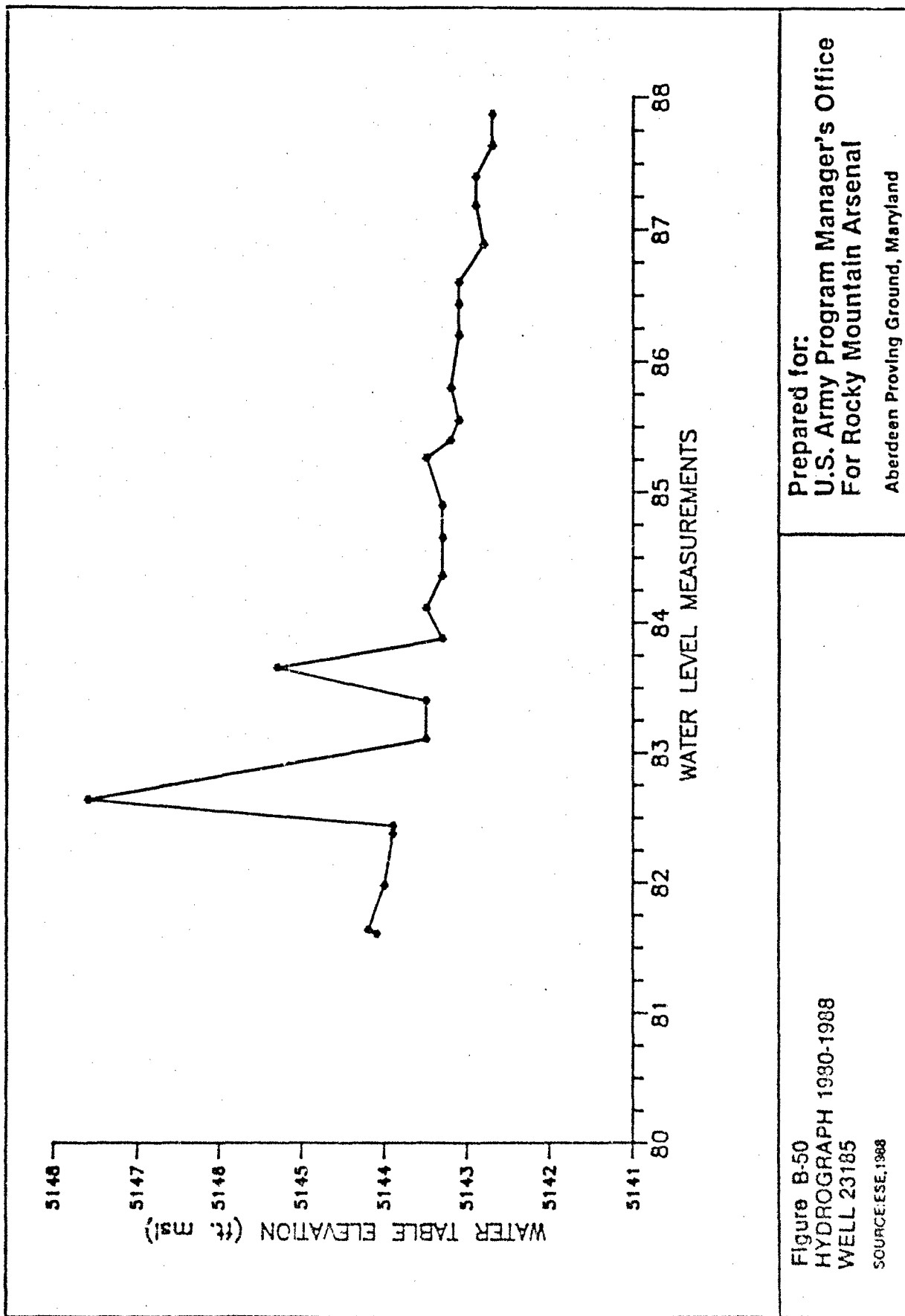


Figure B-50
HYDROGRAPH 1980-1988
WELL 23185
SOURCE: ESE, 1988

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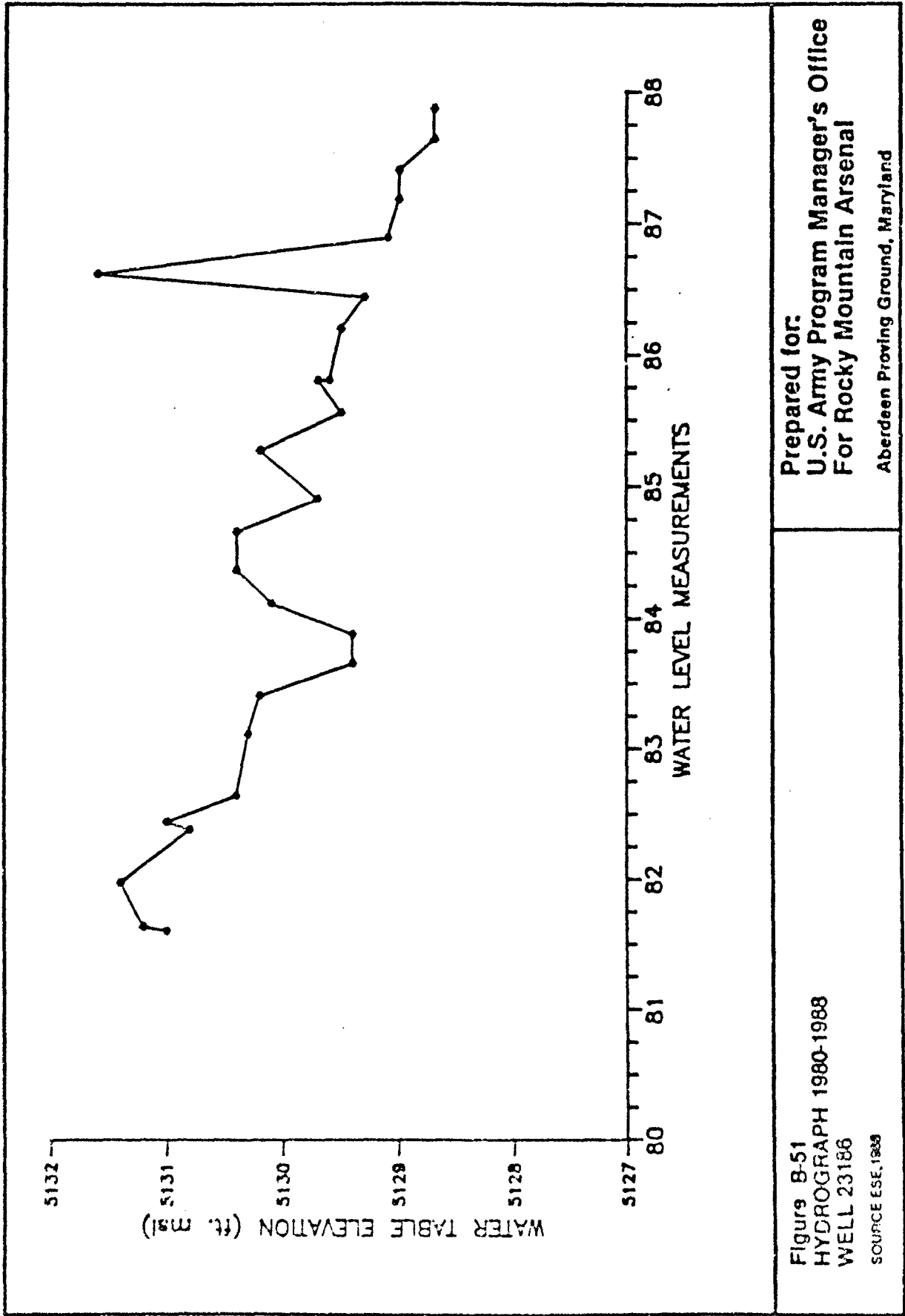


Figure B-51
HYDROGRAPH 1980-1988
WELL 23186
SOURCE ESE, 1203

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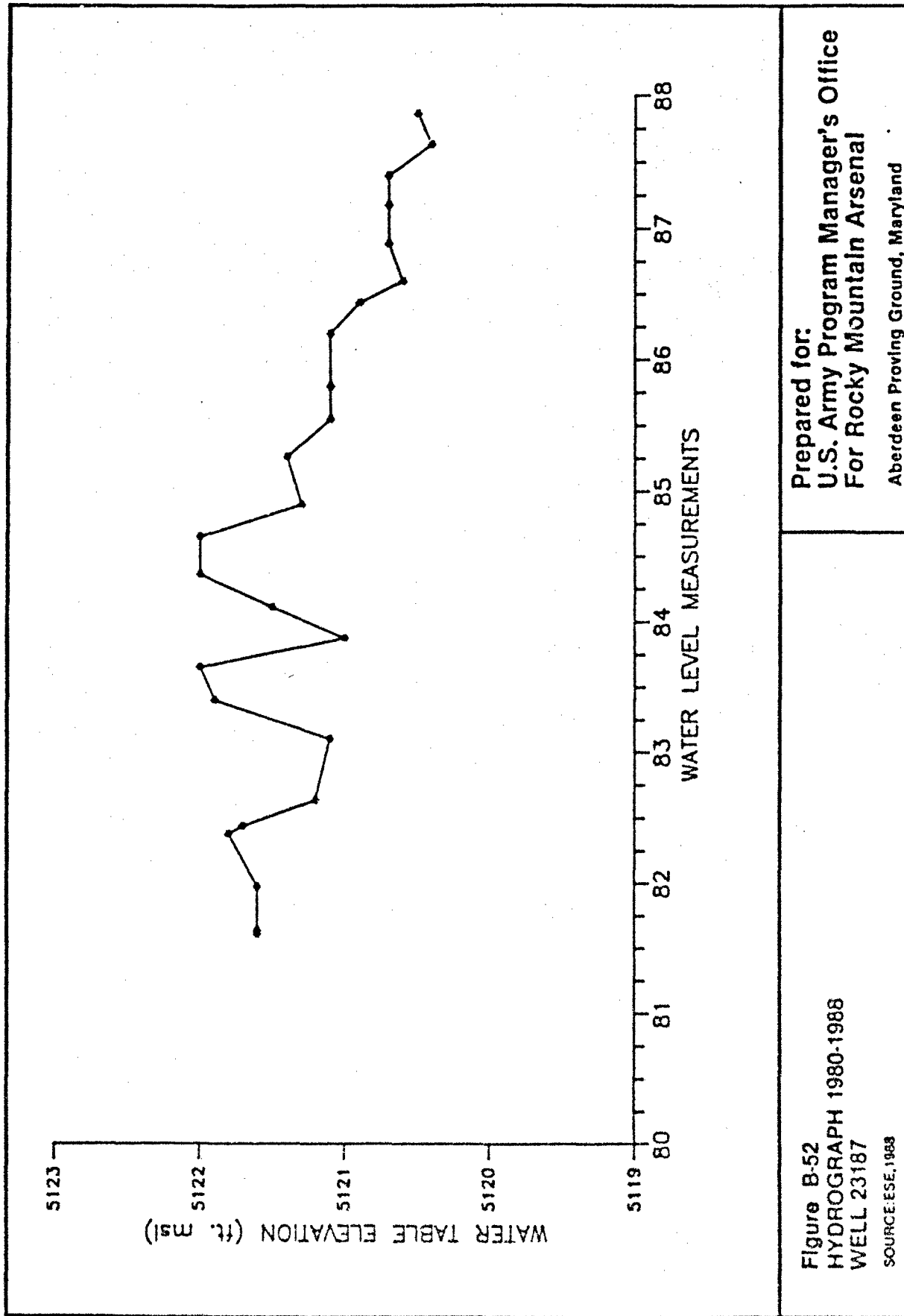


Figure B-52
HYDROGRAPH 1980-1988
WELL 23187
SOURCE: ESE, 1988

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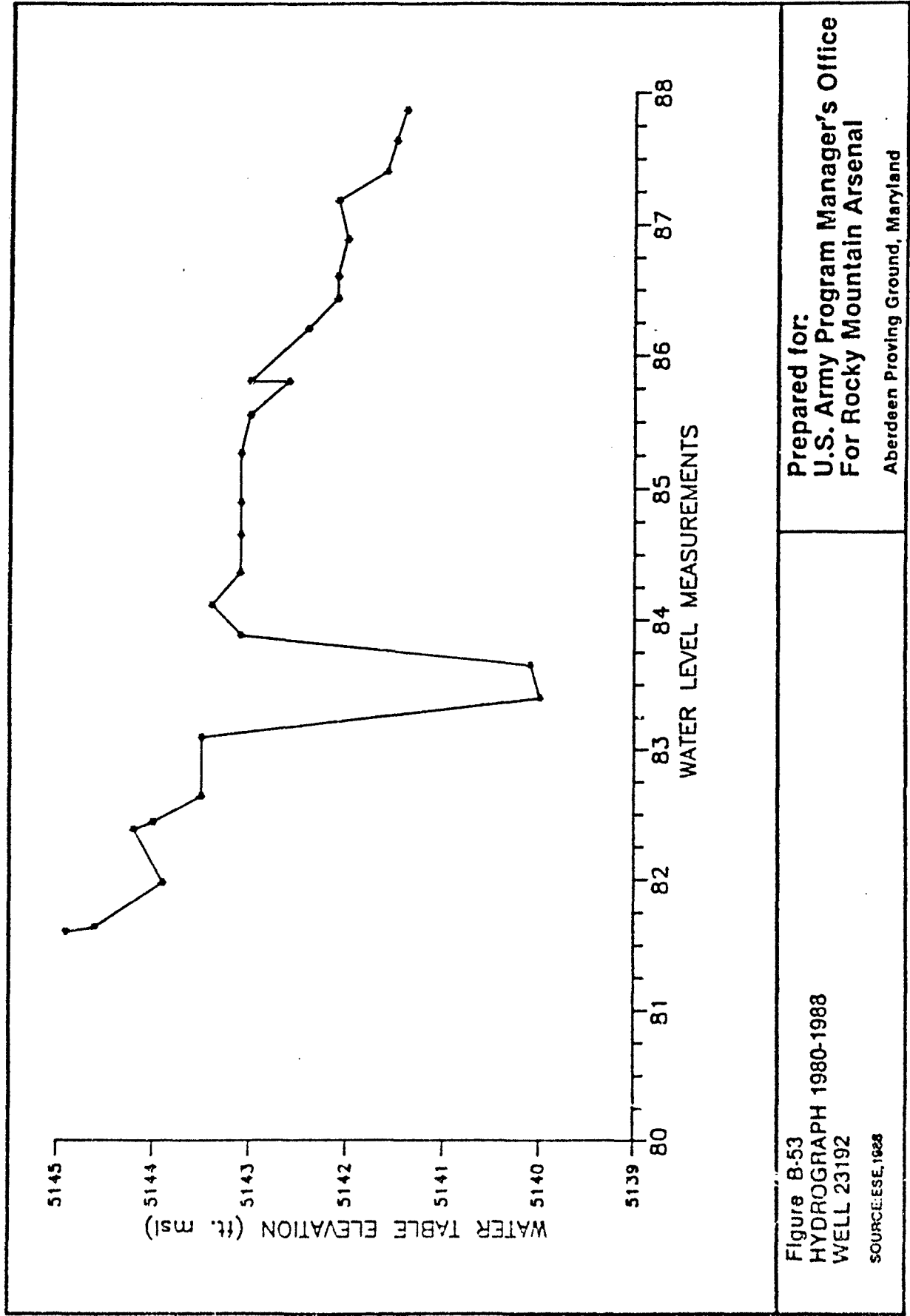


Figure B-53
HYDROGRAPH 1980-1988
WELL 23192
SOURCE: ESE, 1988

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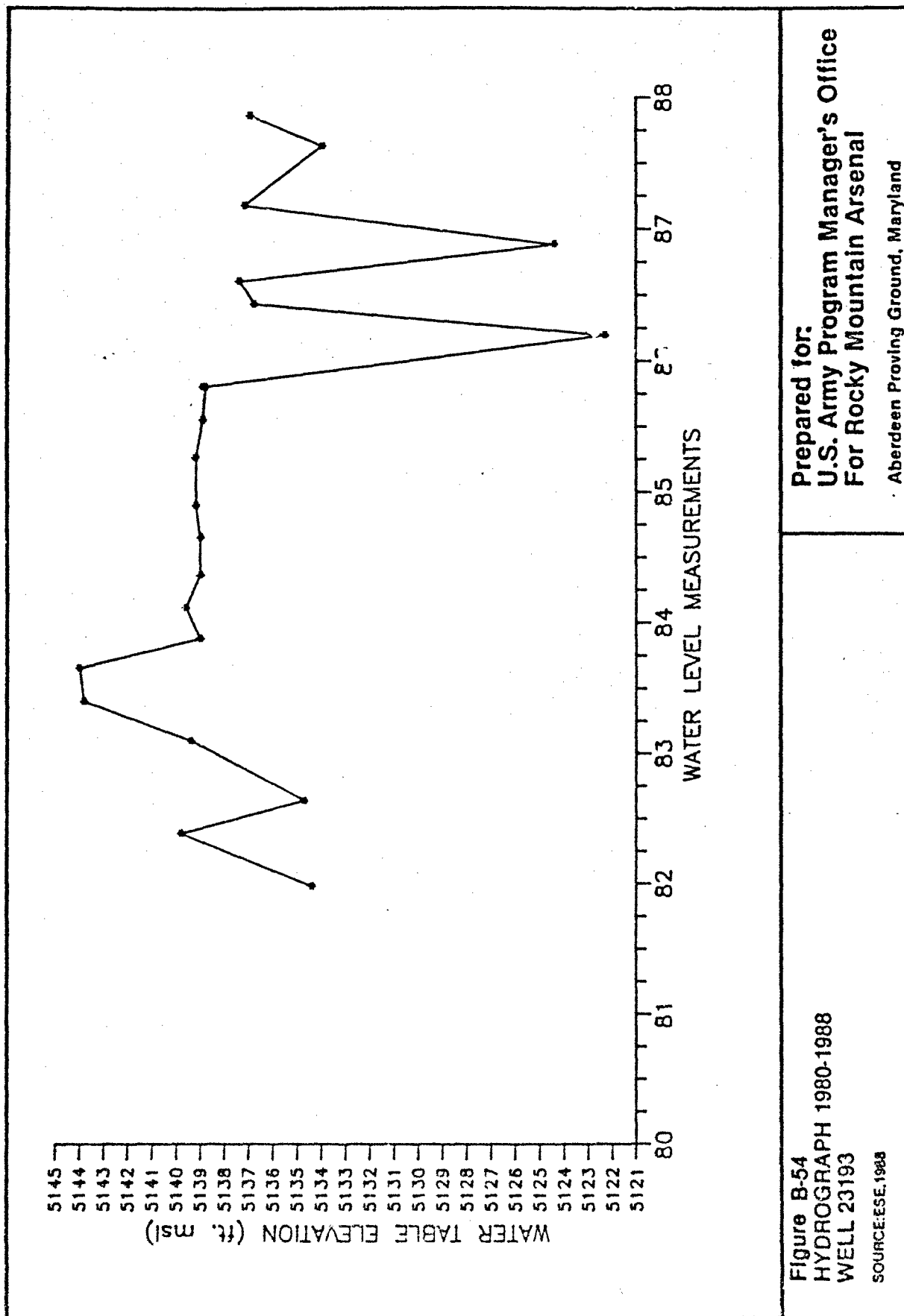
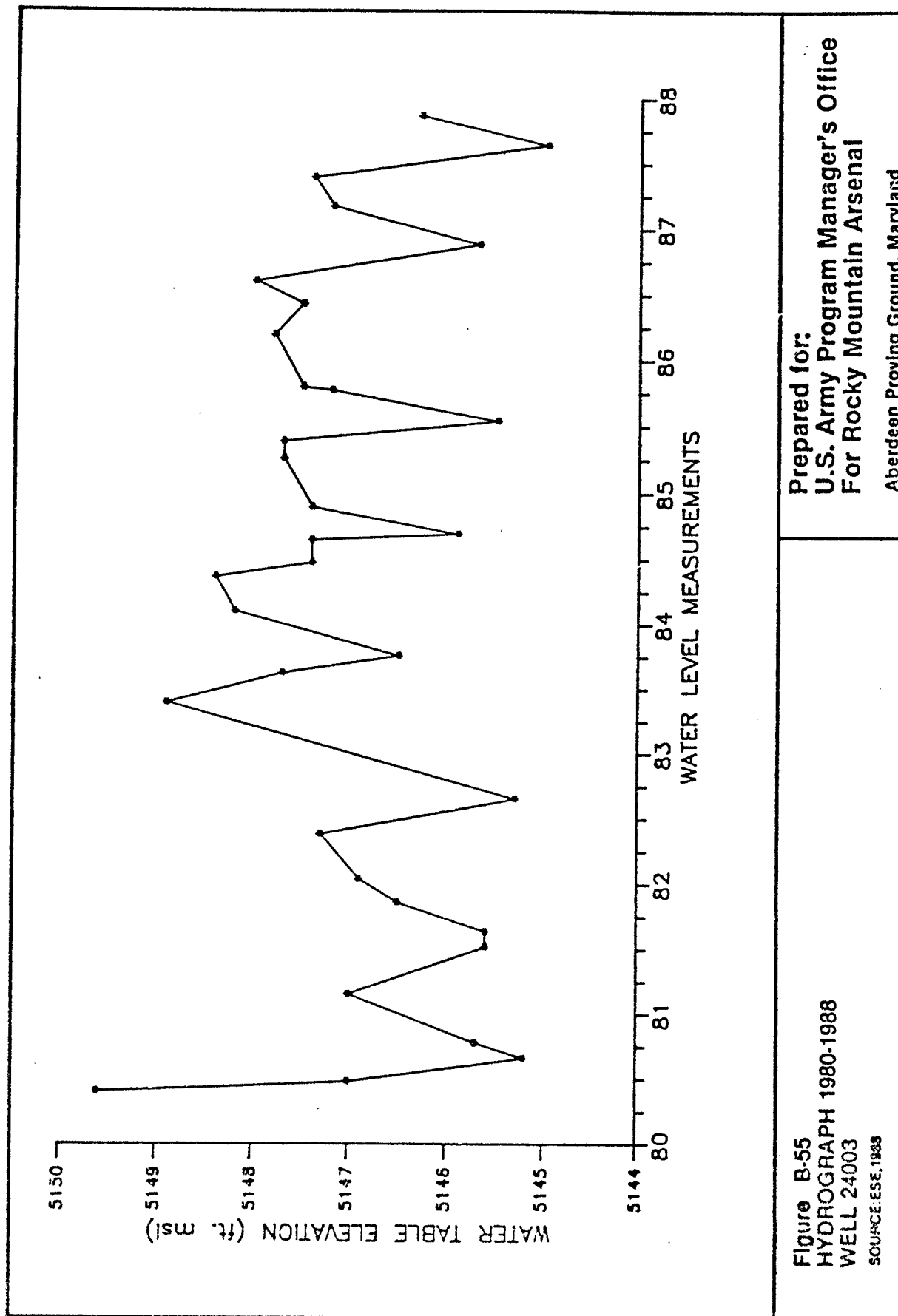


Figure B-54
HYDROGRAPH 1980-1988
WELL 23193
SOURCE: ESE, 1988

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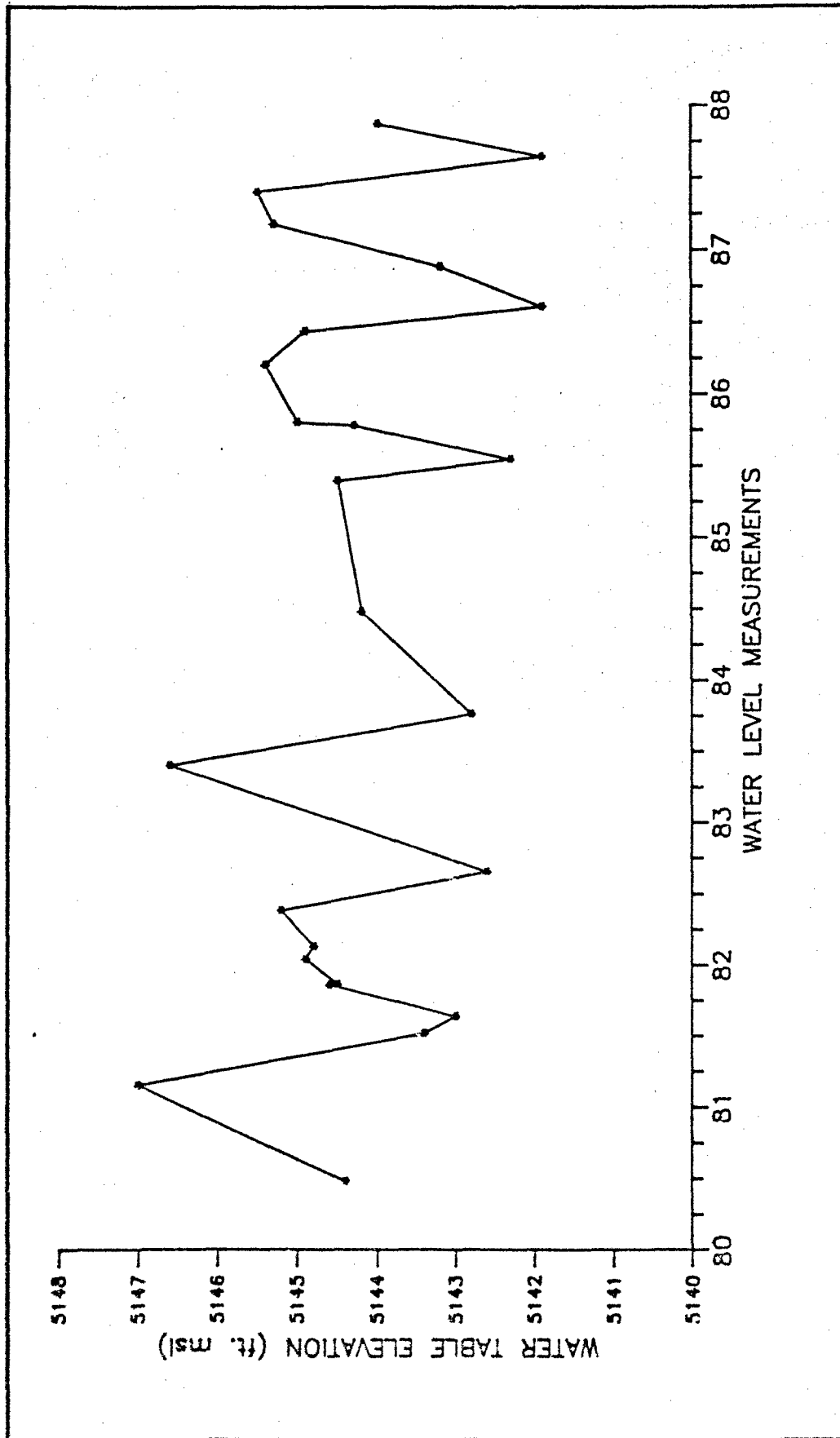


Figure B-58
HYDROGRAPH 1980-1988
WELL 24106
SOURCE: ESE, 1988

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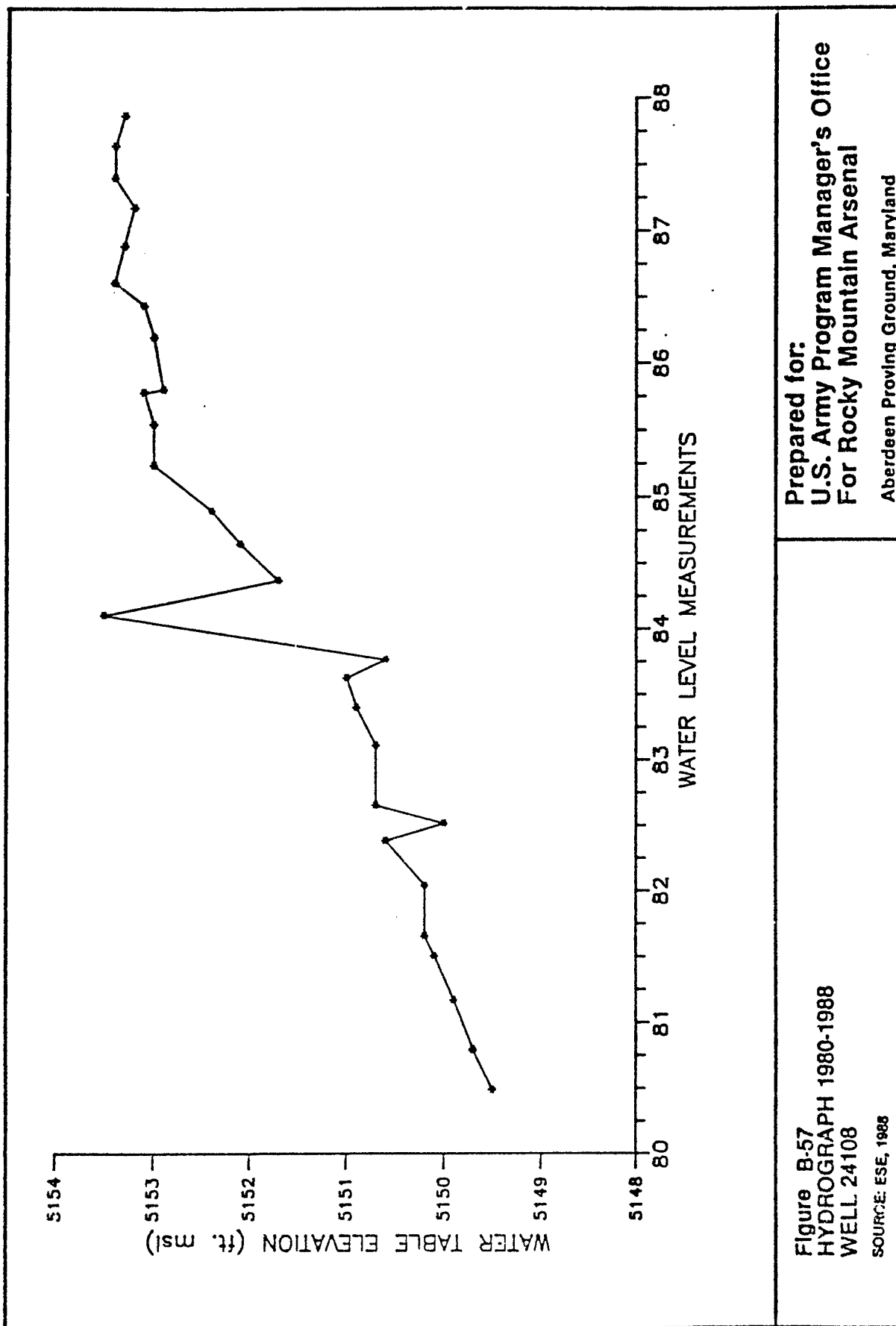
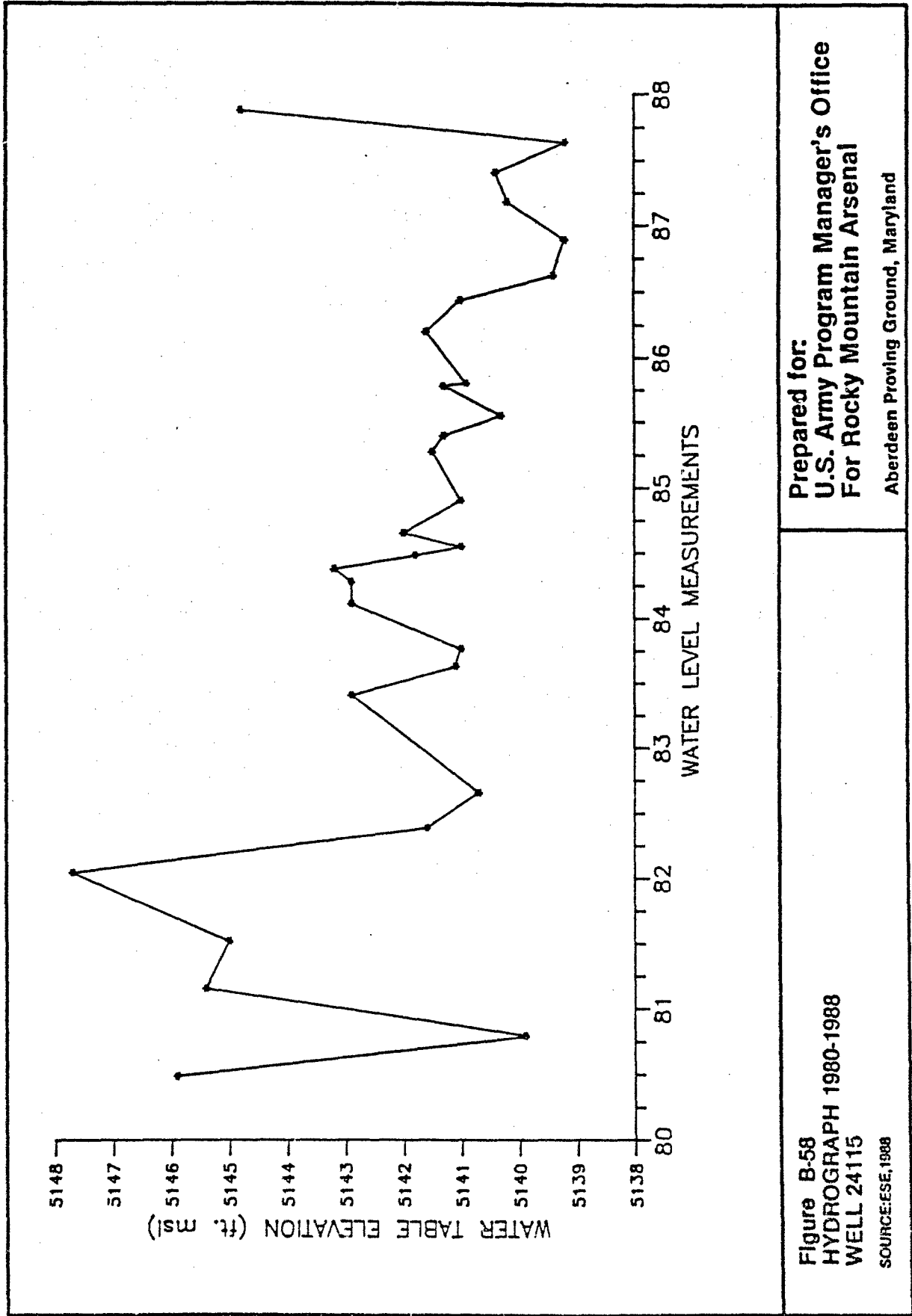


Figure B-57
HYDROGRAPH 1980-1988
WELL 24108
SOURCE: ESE, 1988

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Figure B-58
HYDROGRAPH 1980-1988
WELL 24115
SOURCE: ESE, 1988

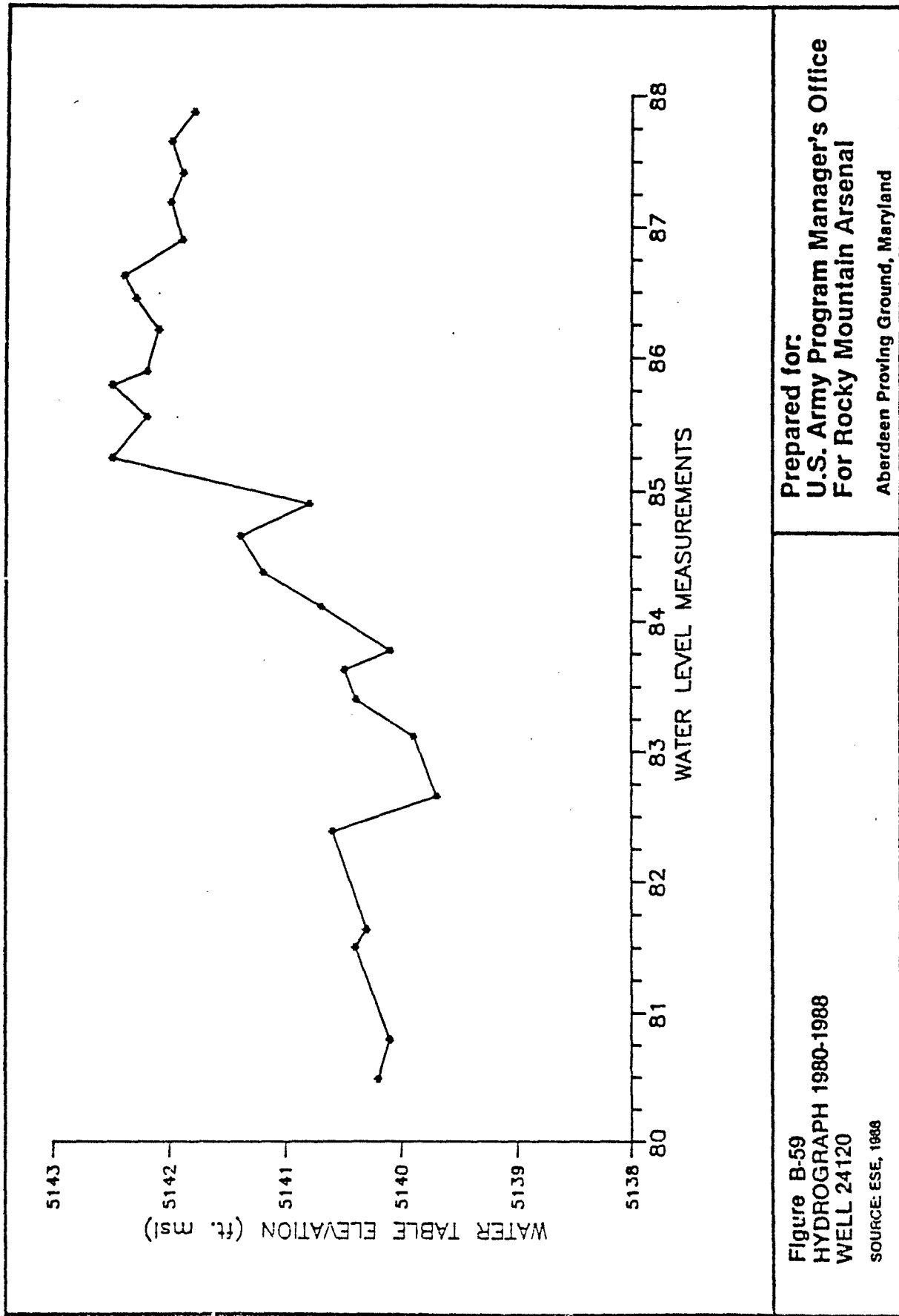


Figure B-59
HYDROGRAPH 1980-1988
WELL 24120
SOURCE: ESE, 1988

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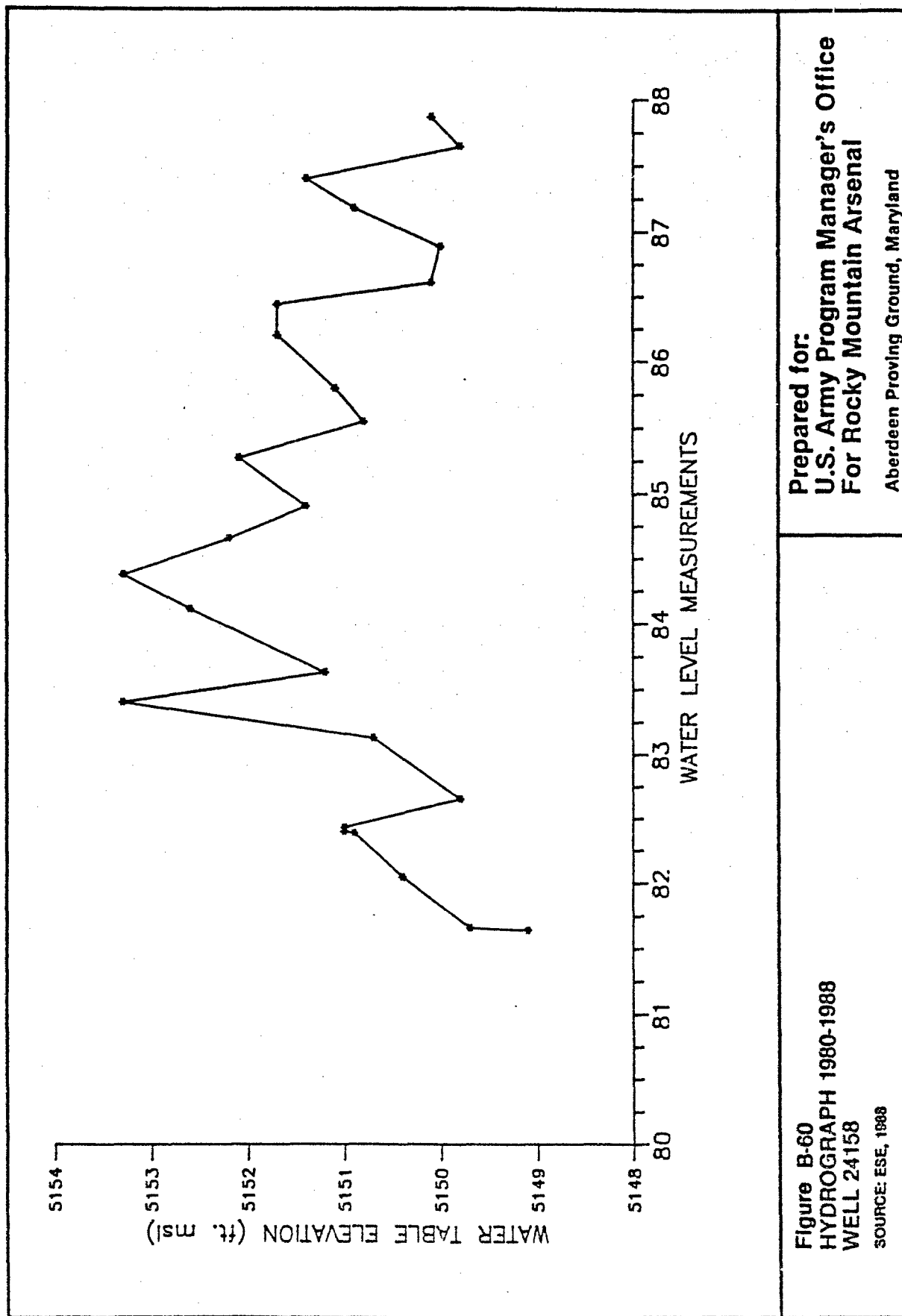


Figure B-60
HYDROGRAPH 1980-1988
WELL 24158
SOURCE: ESE, 1988

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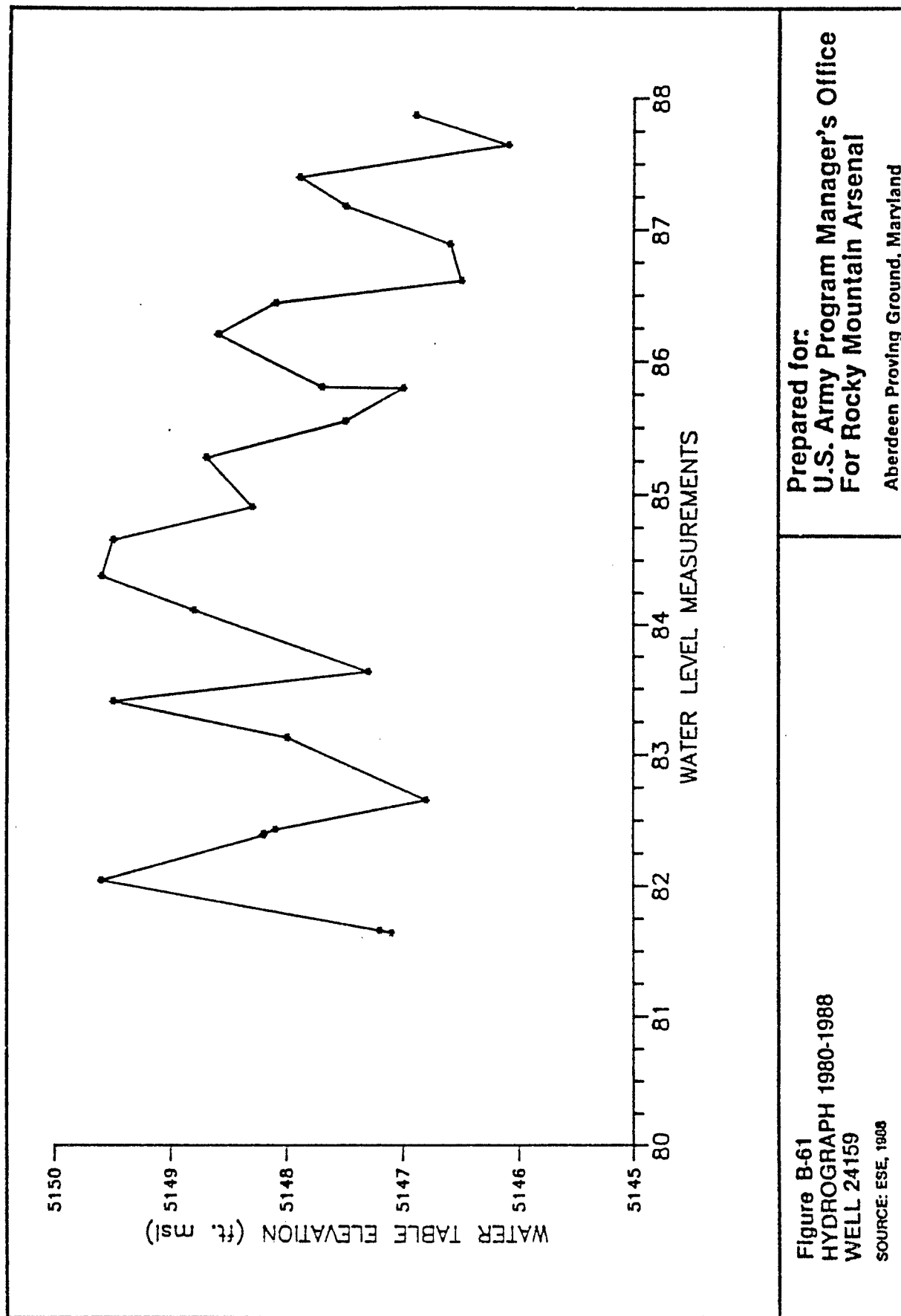


Figure B-61
HYDROGRAPH 1980-1988
WELL 24159
SOURCE: ESE, 1988

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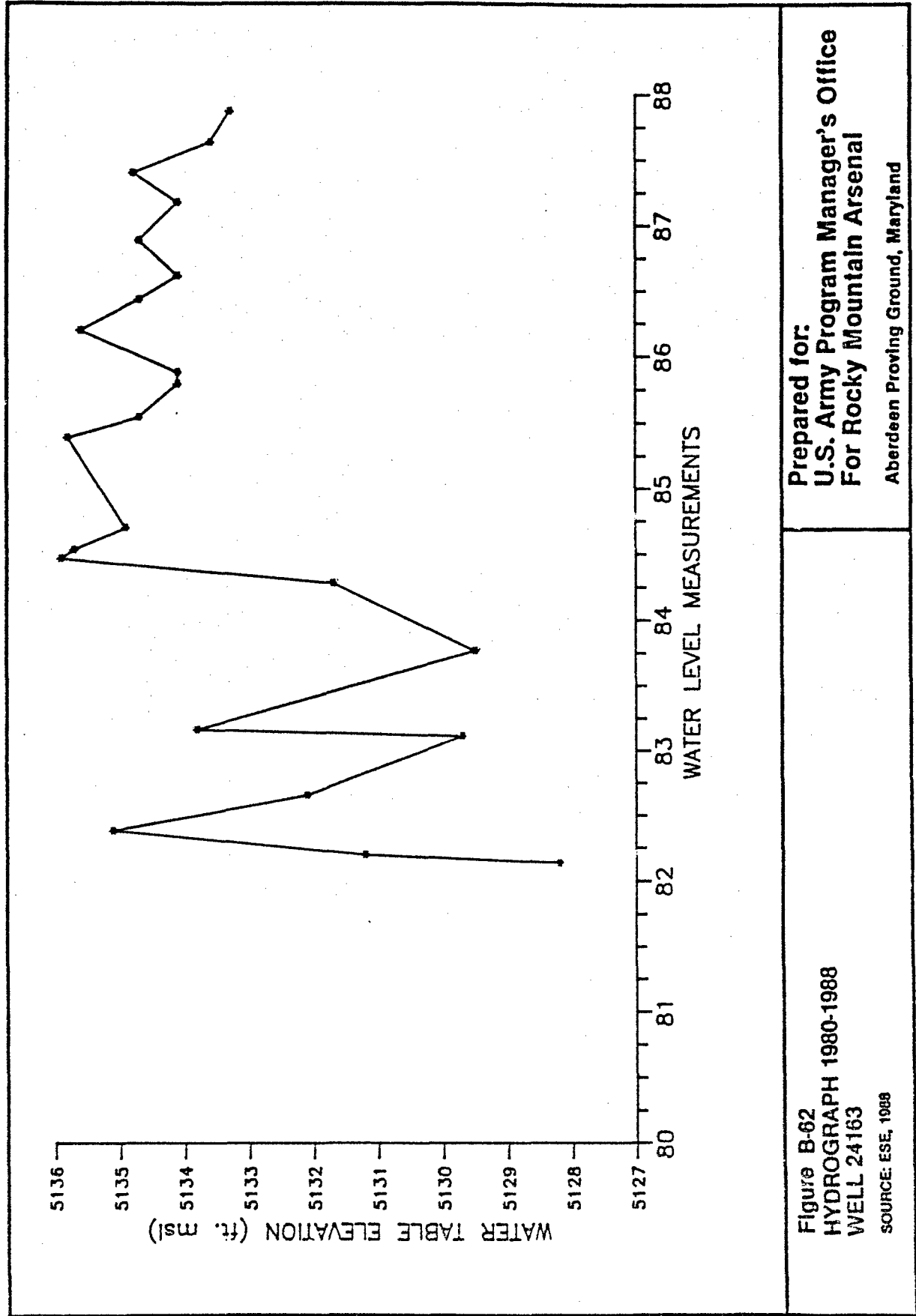


Figure B-62
HYDROGRAPH 1980-1988
WELL 24163
SOURCE: ESE, 1988

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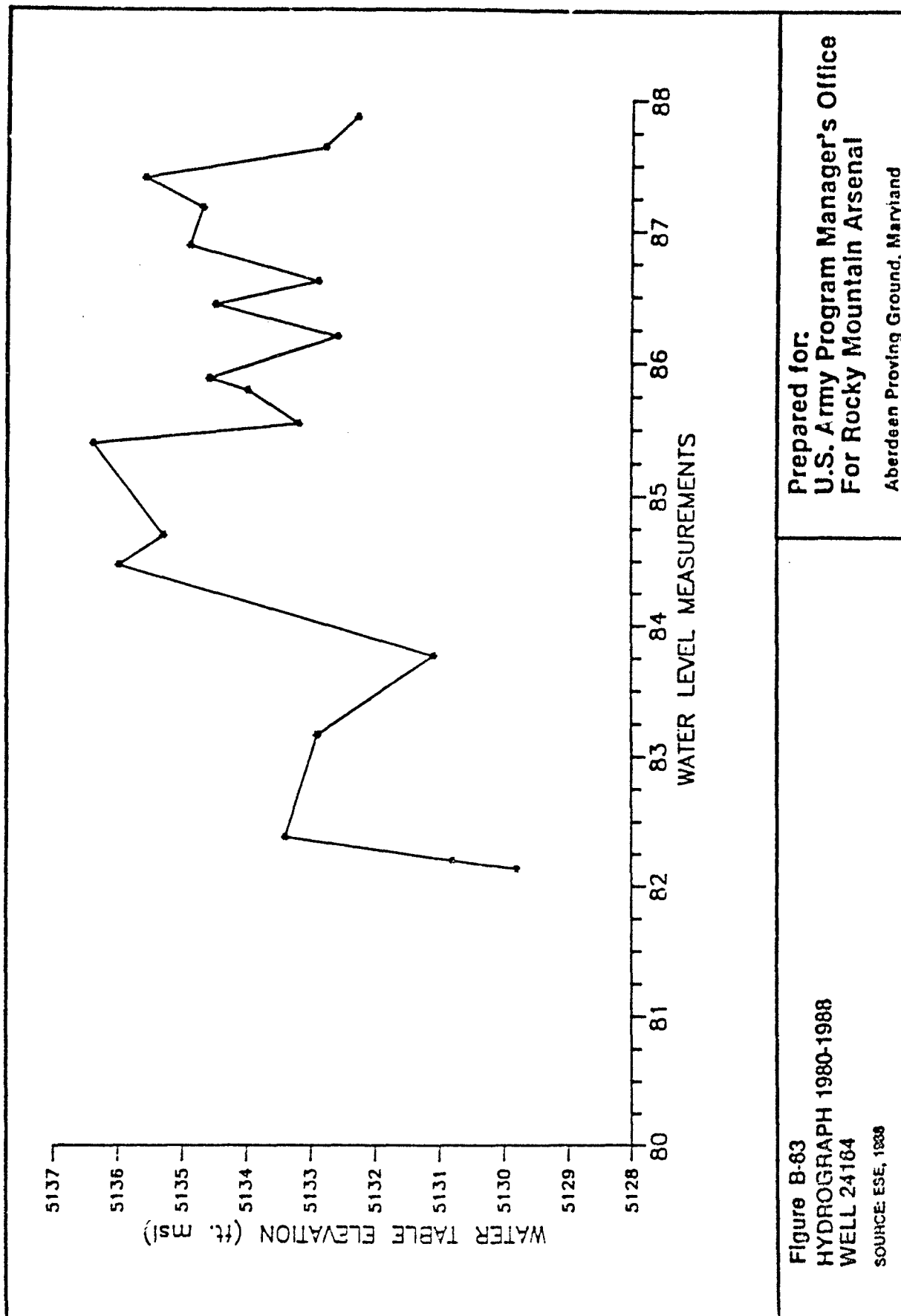
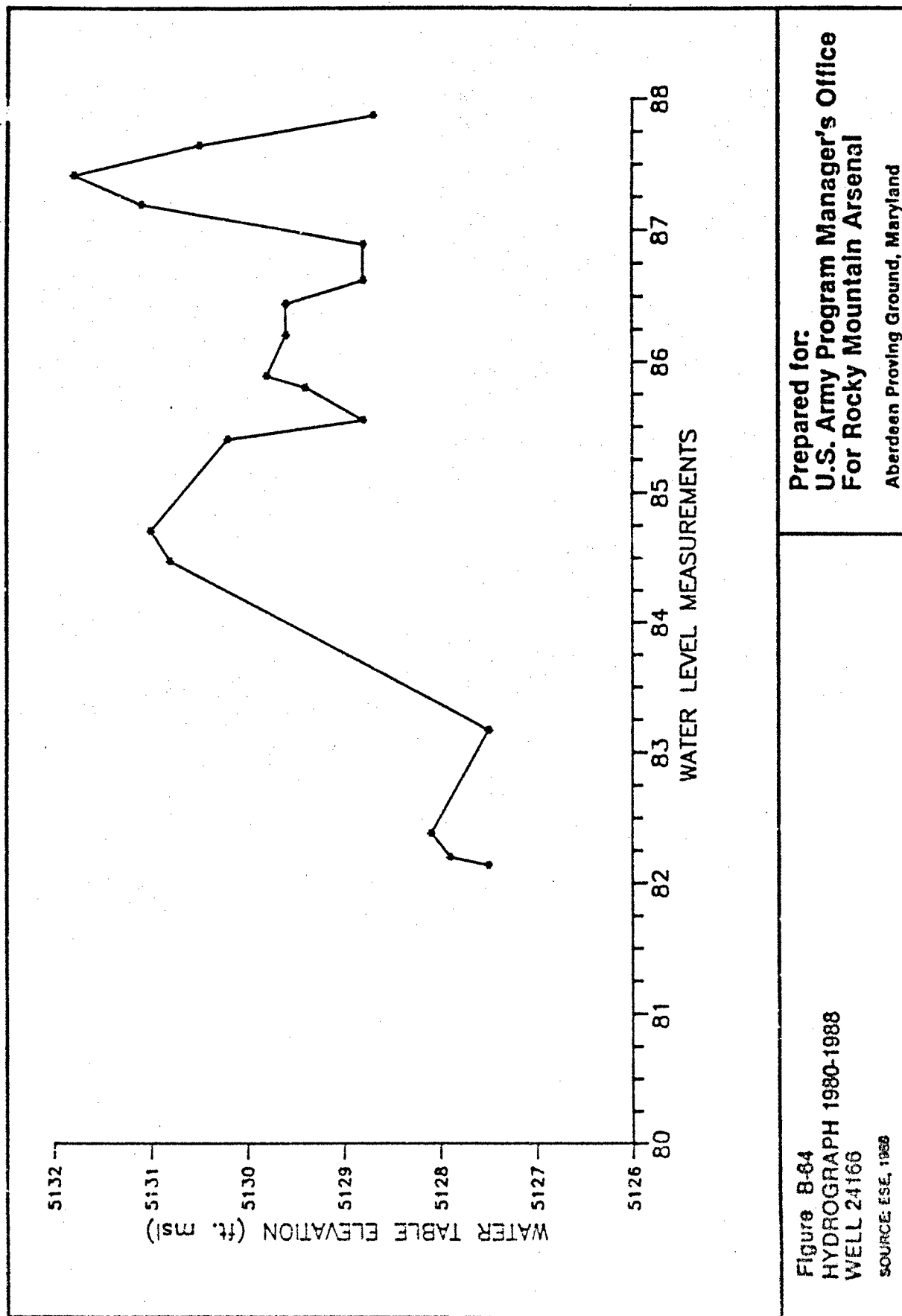
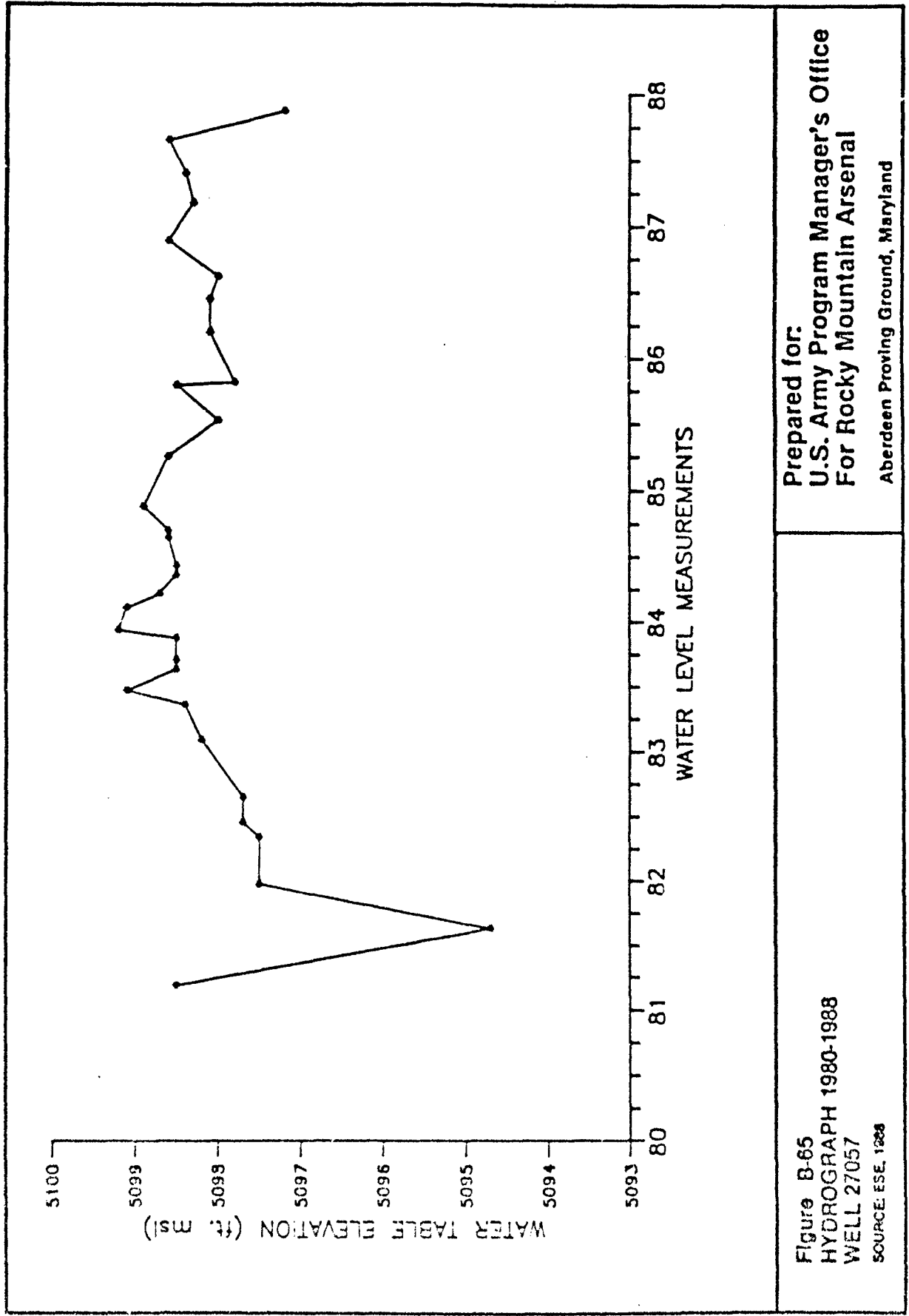


Figure B-83
HYDROGRAPH 1980-1988
WELL 24184
SOURCE: ESE, 1838

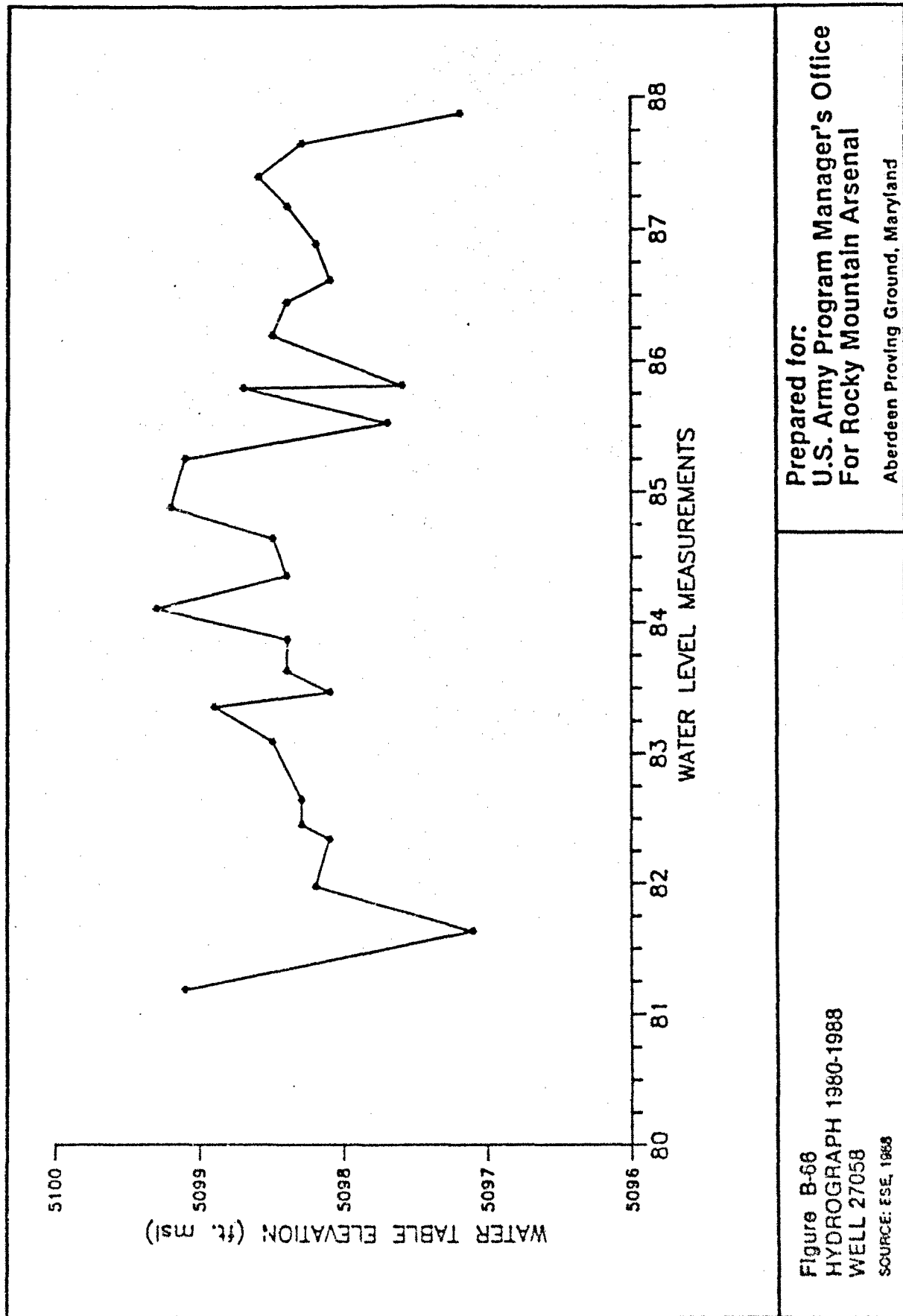
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Aberdeen Proving Ground, Maryland

Figure B-65
HYDROGRAPH 1980-1988
WELL 27057
SOURCE: ESE 1228



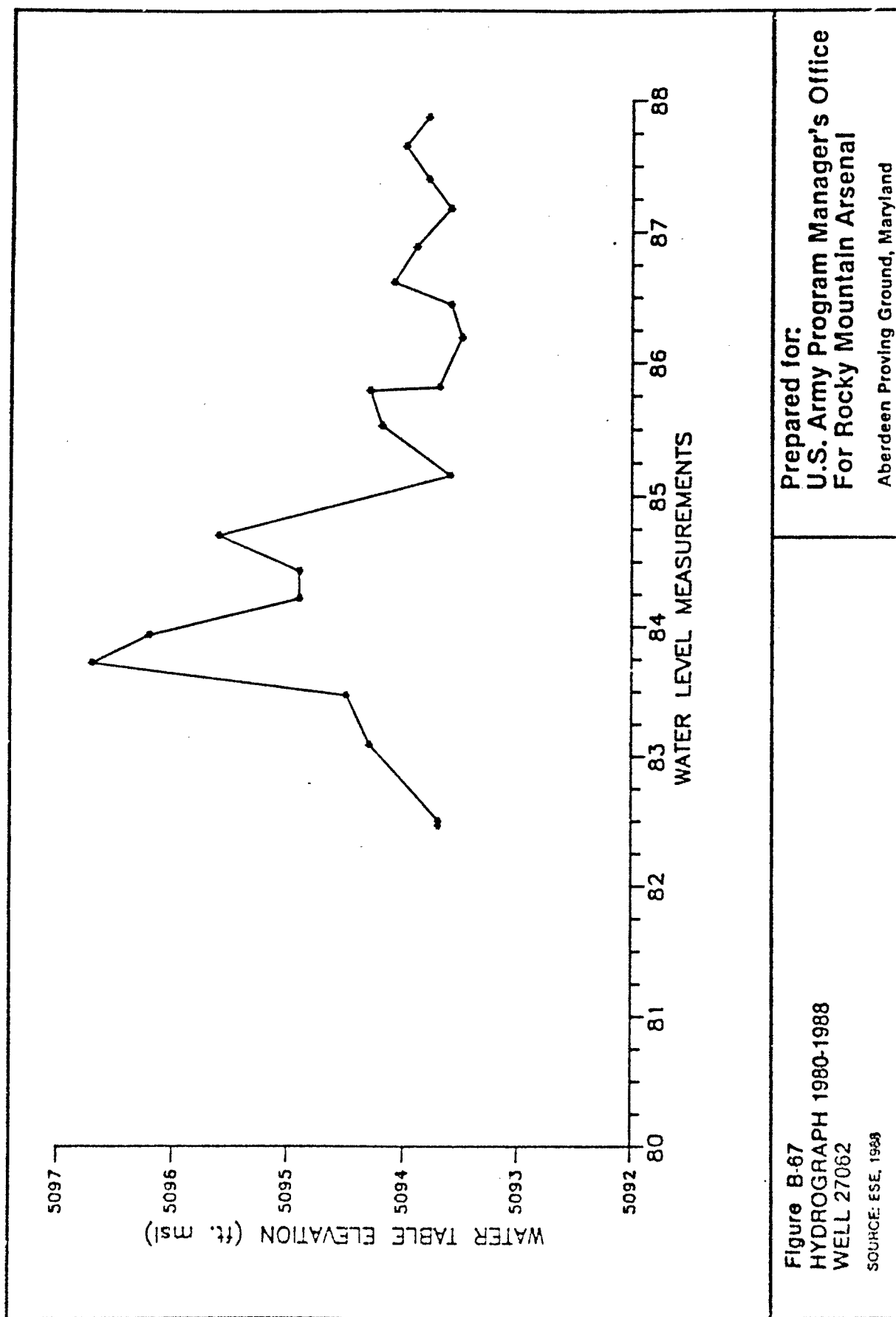


Figure B-67
HYDROGRAPH 1980-1988
WELL 27062
SOURCE: ESE, 1988

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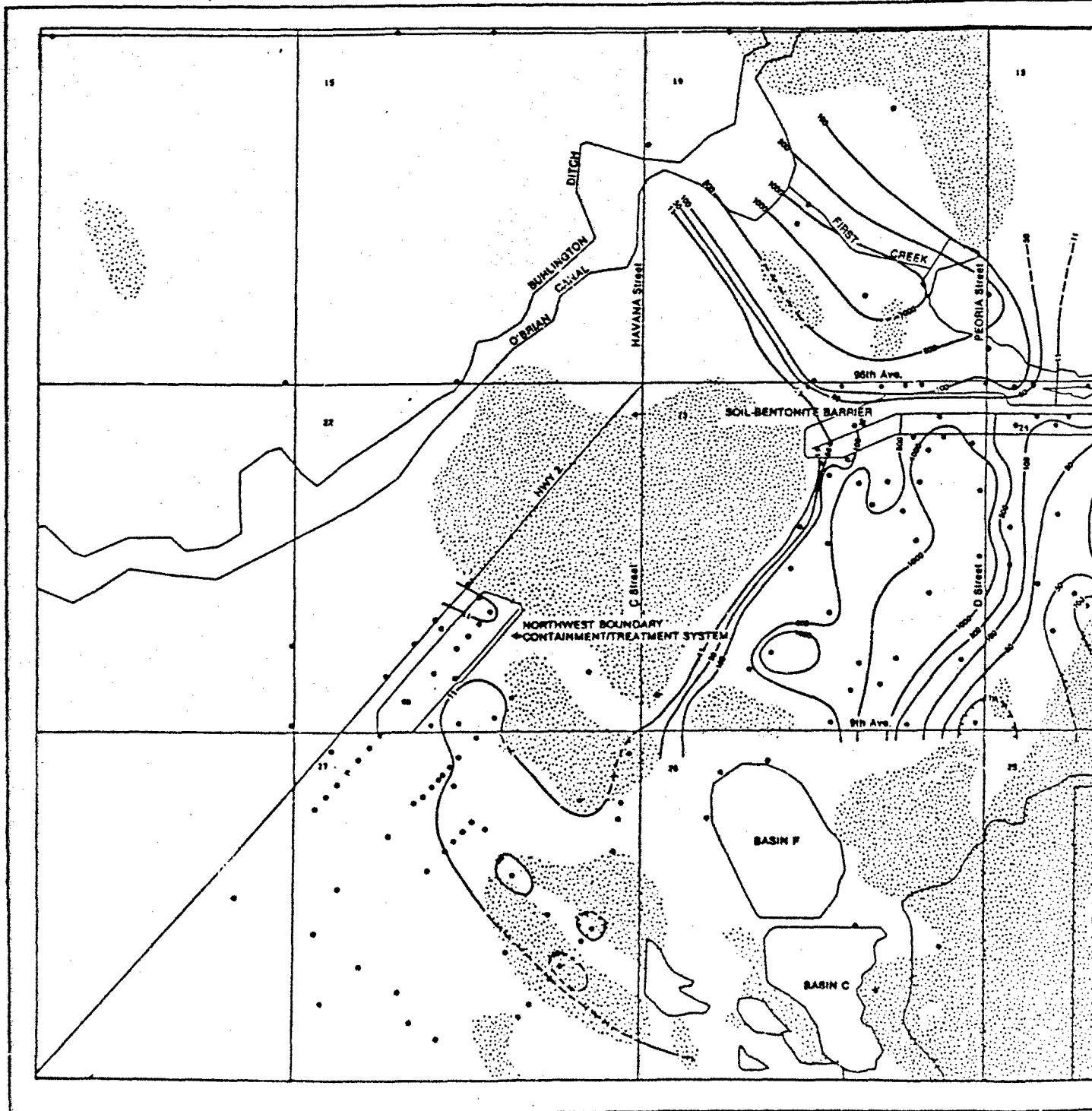
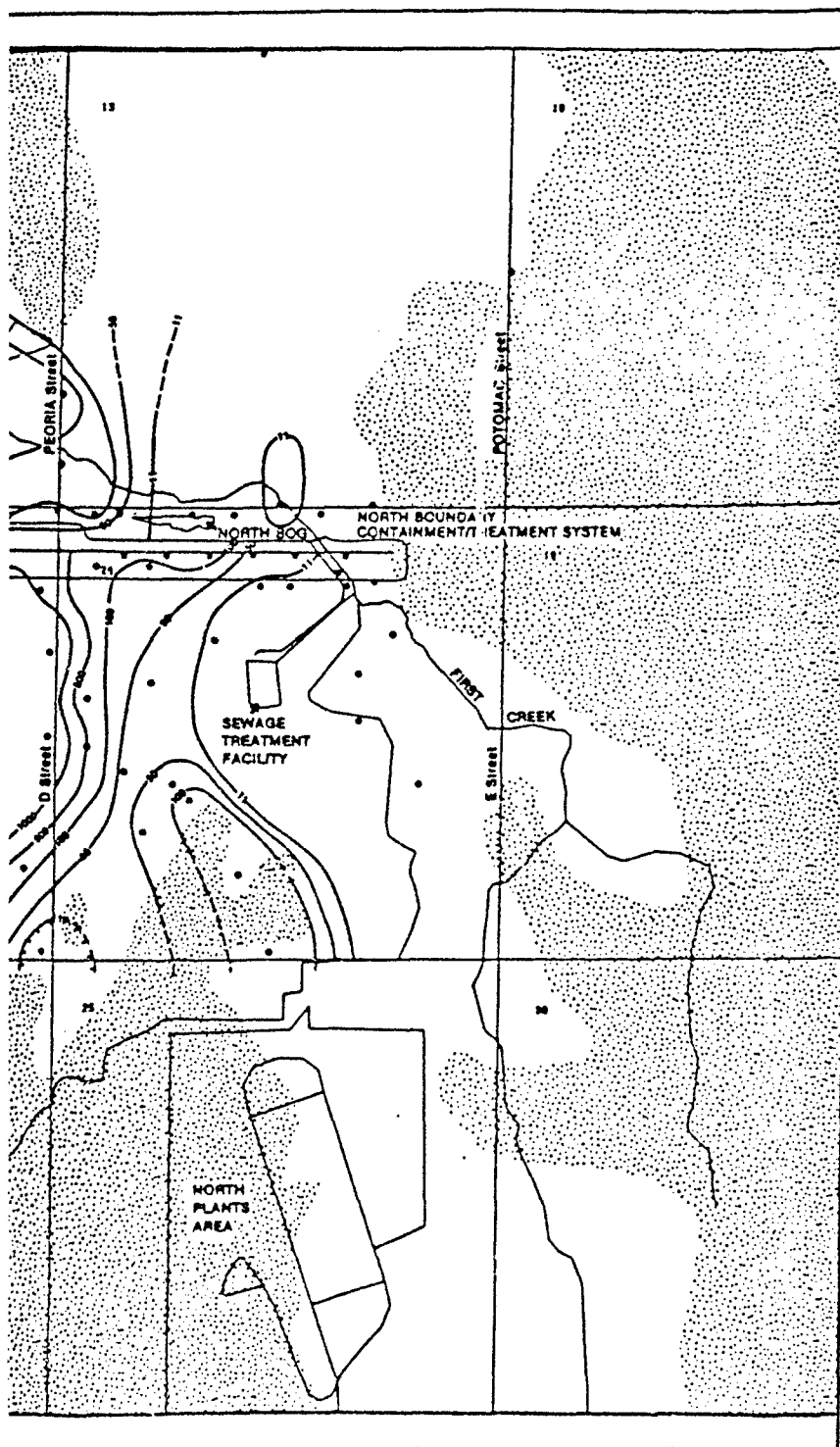


Figure B-68A
DIMP CONCENTRATION DISTRIBUTION, ug/l,
1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

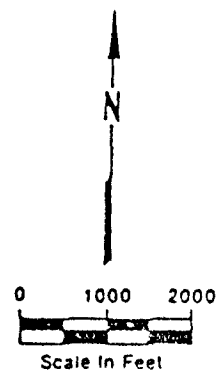
ISOCONCENTRATION LINE

ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
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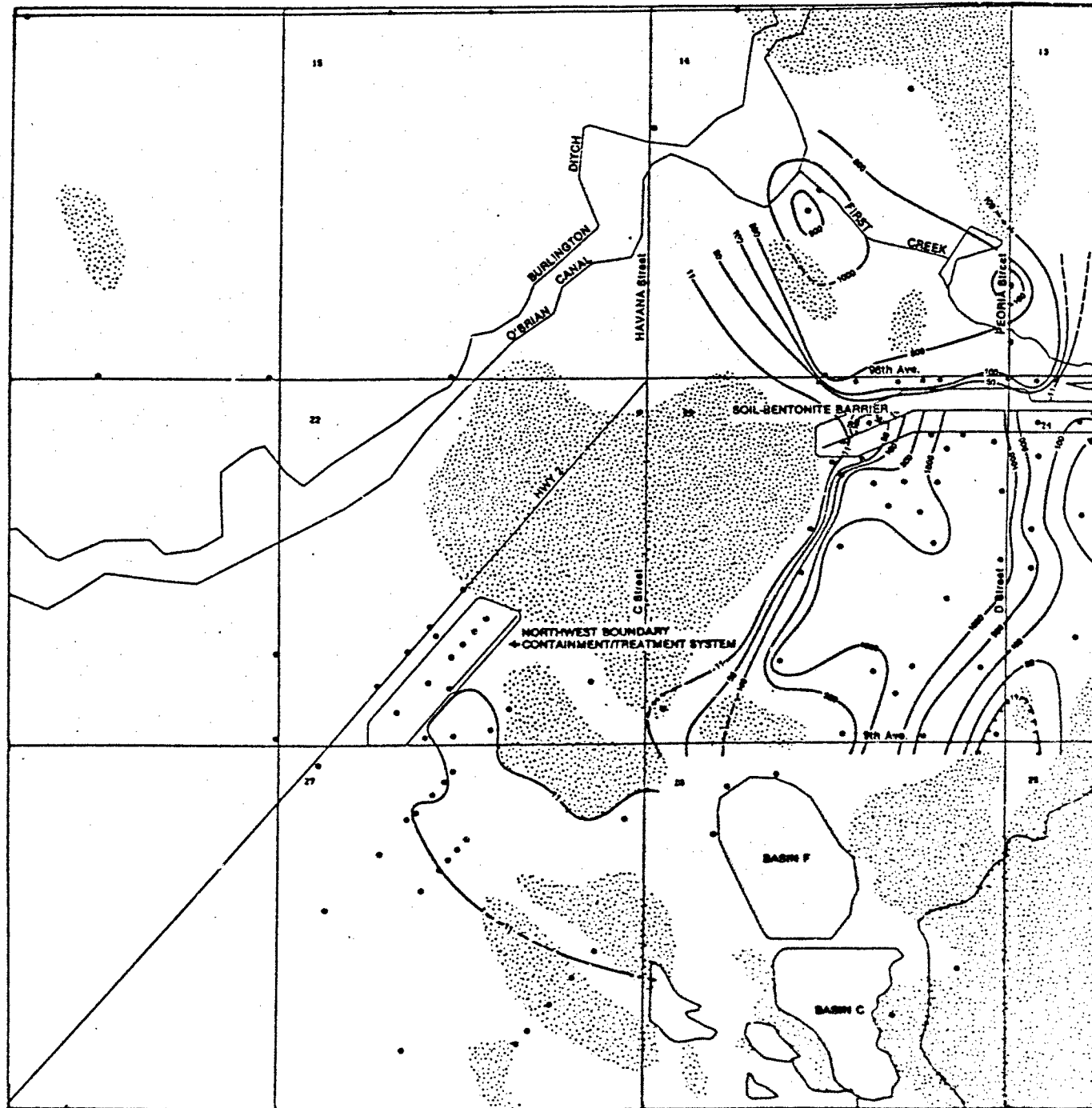
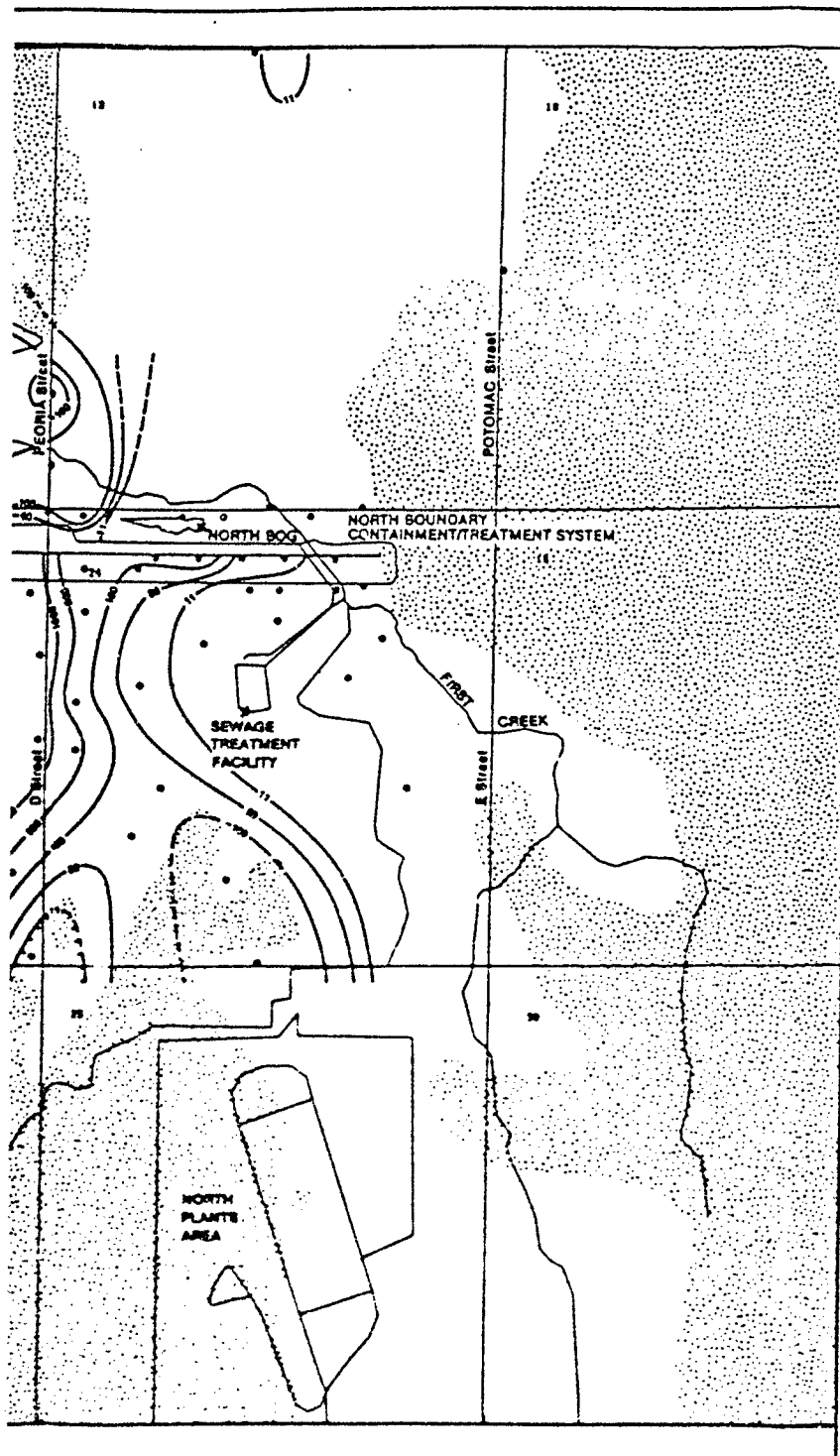


Figure B-68 B
 DIMP CONCENTRATION DISTRIBUTION, ug/l,
 2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

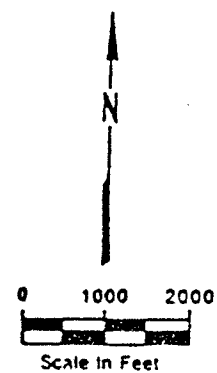
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○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
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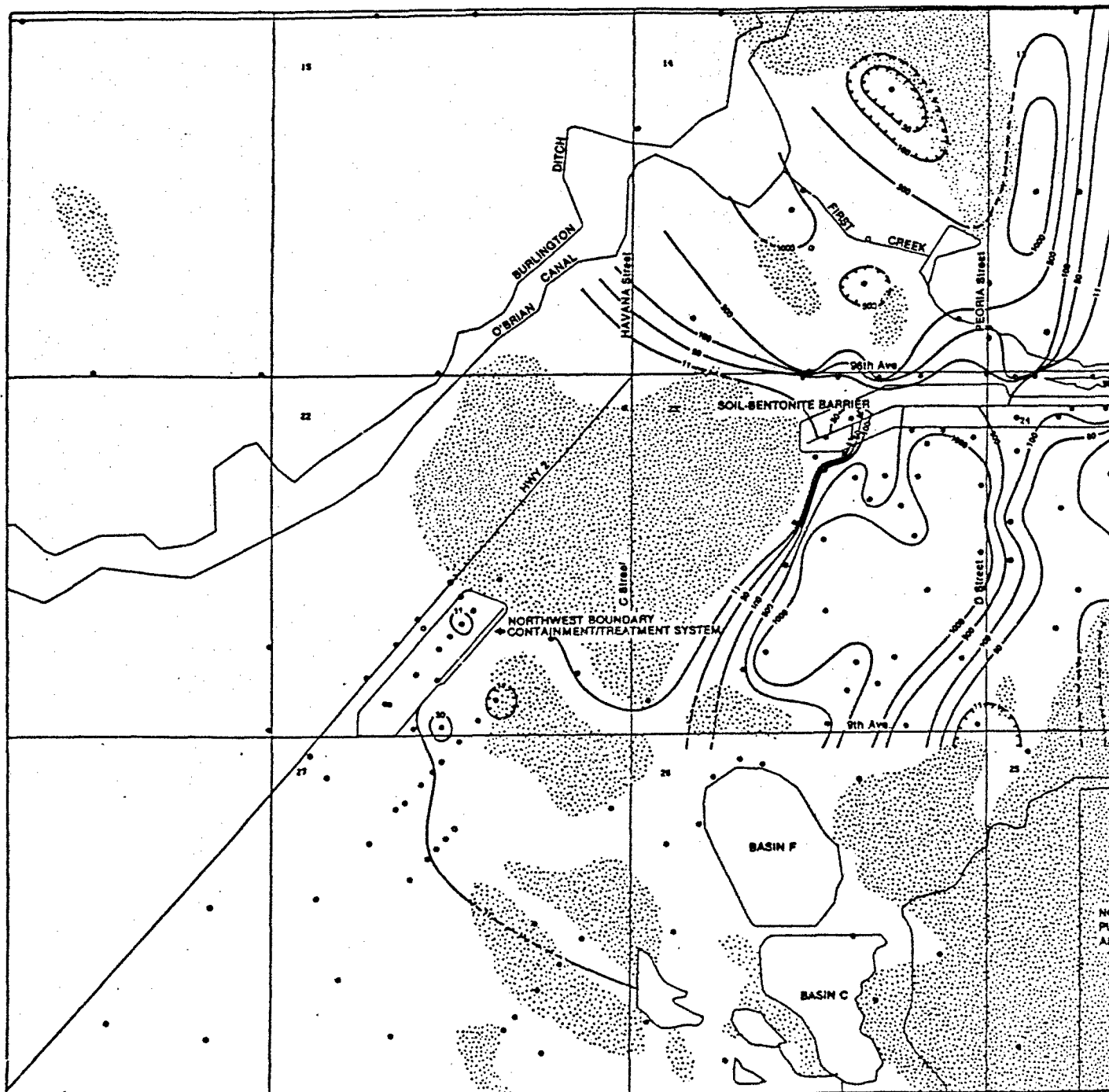
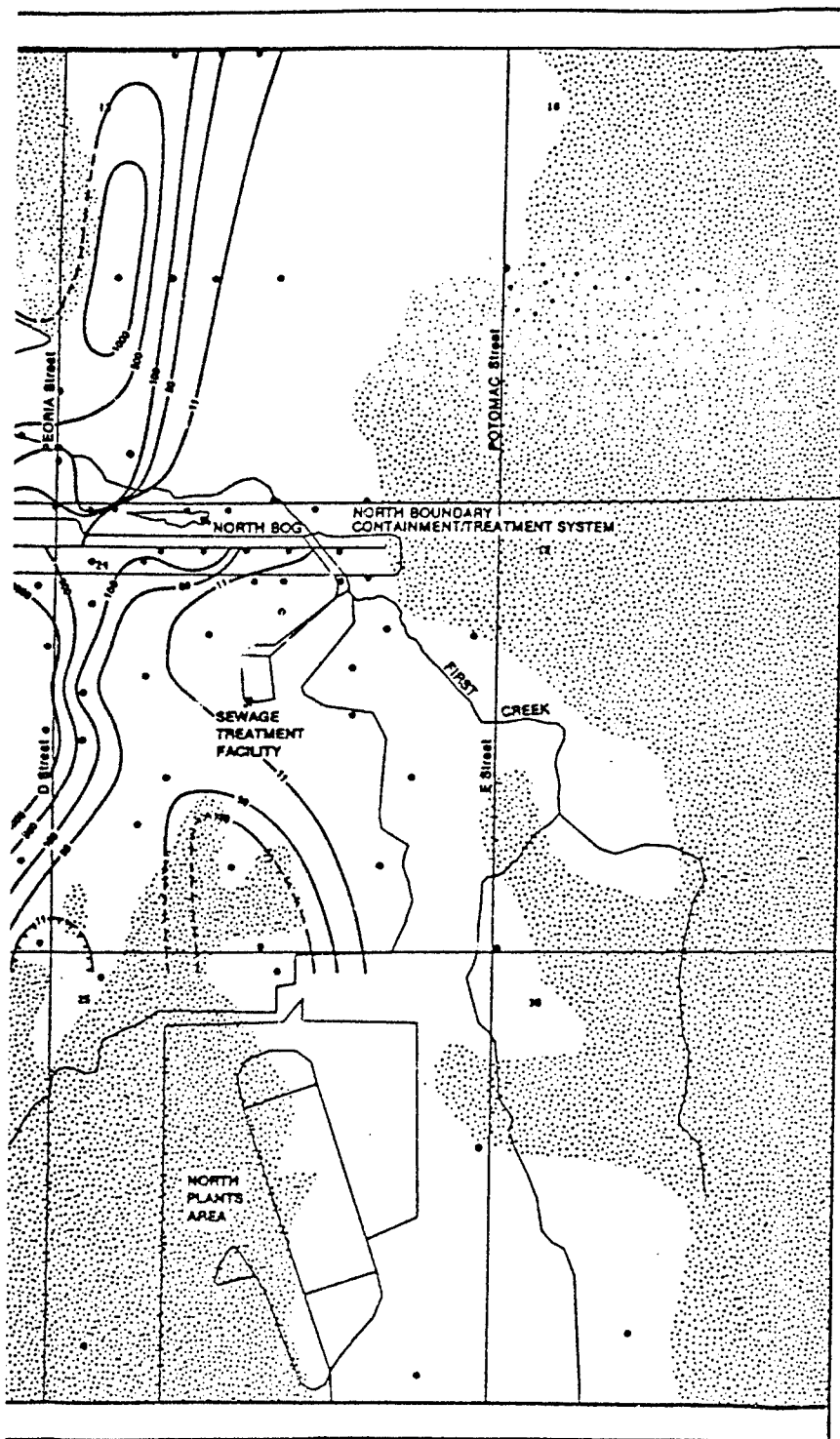


Figure B-68C
 DIMP CONCENTRATION DISTRIBUTION, ug/l,
 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

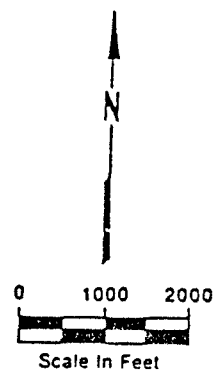
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● MONITORING WELL SAMPLED
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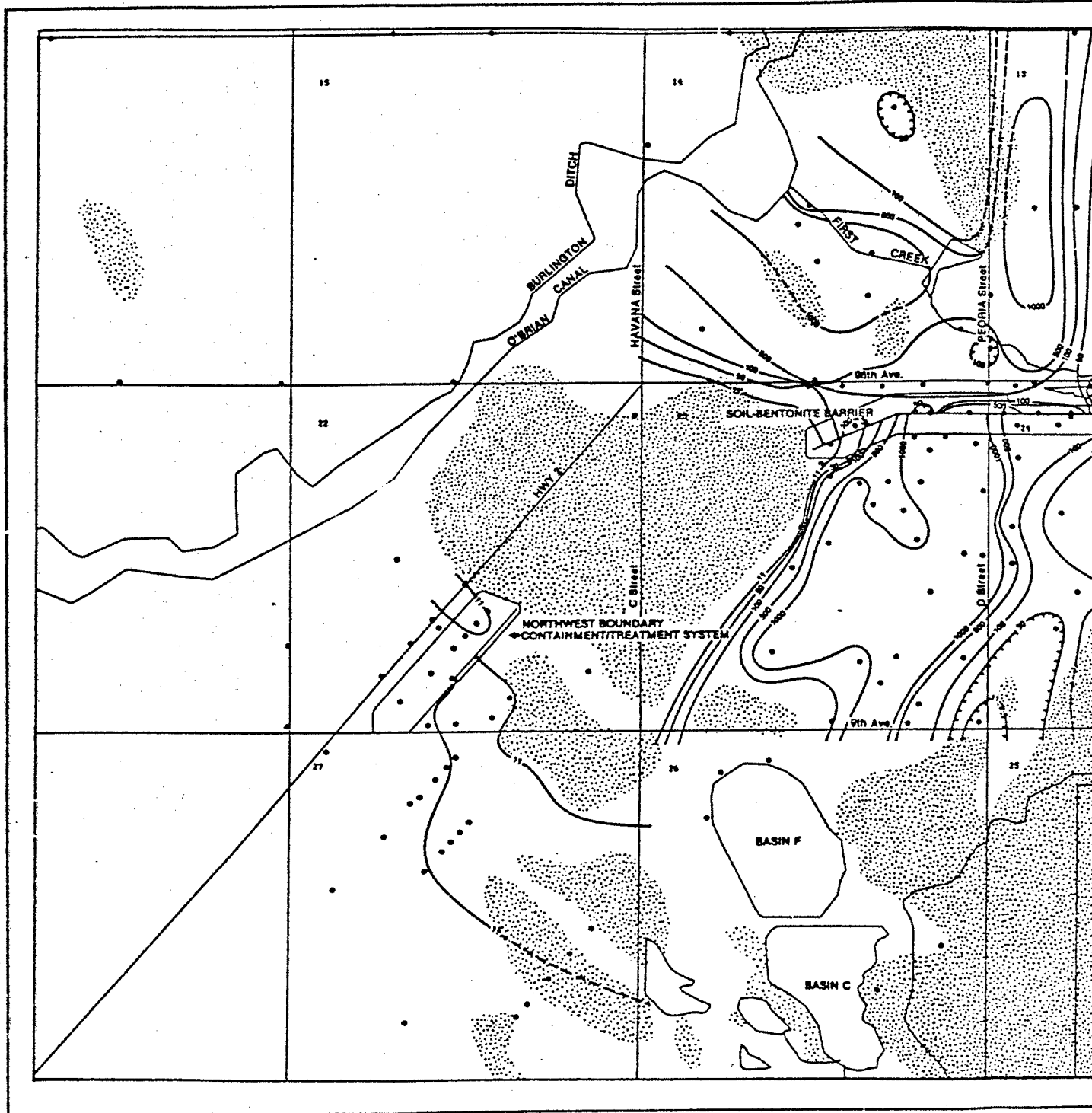
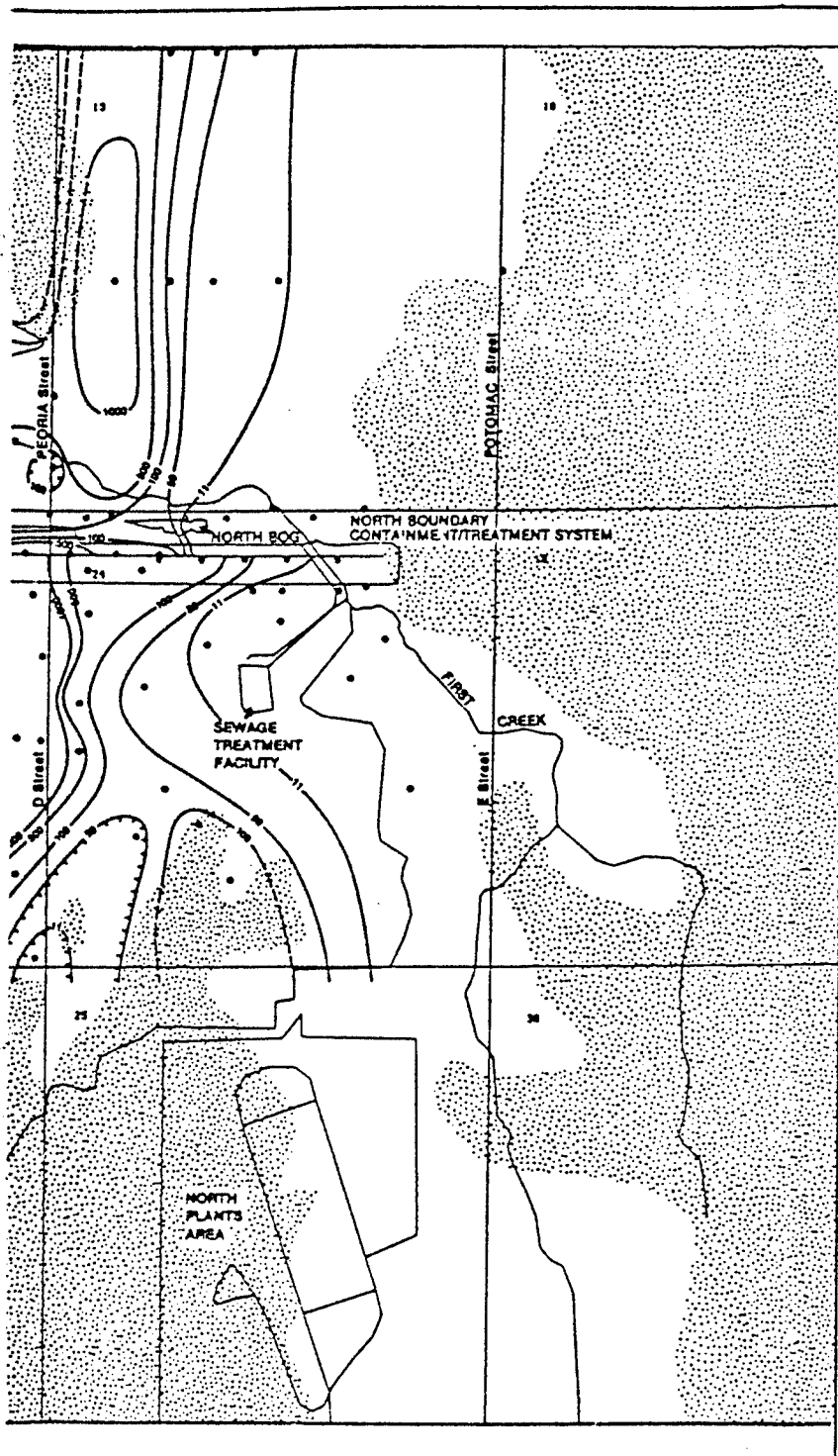


Figure B-68D
DIMP CONCENTRATION DISTRIBUTION, ug/l,
4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

— 1 — ISOCONCENTRATION LINE

- - - 1 - - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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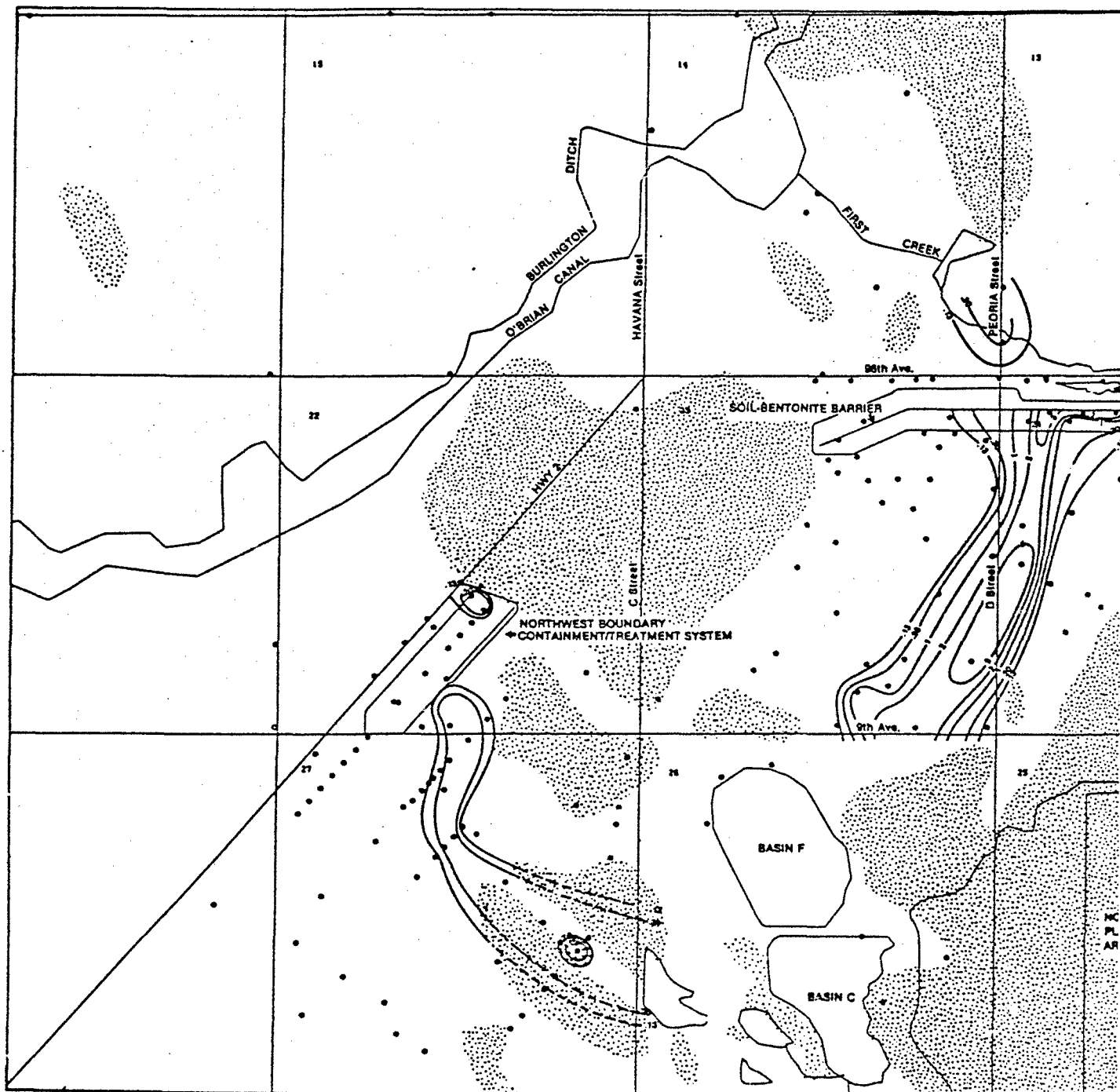
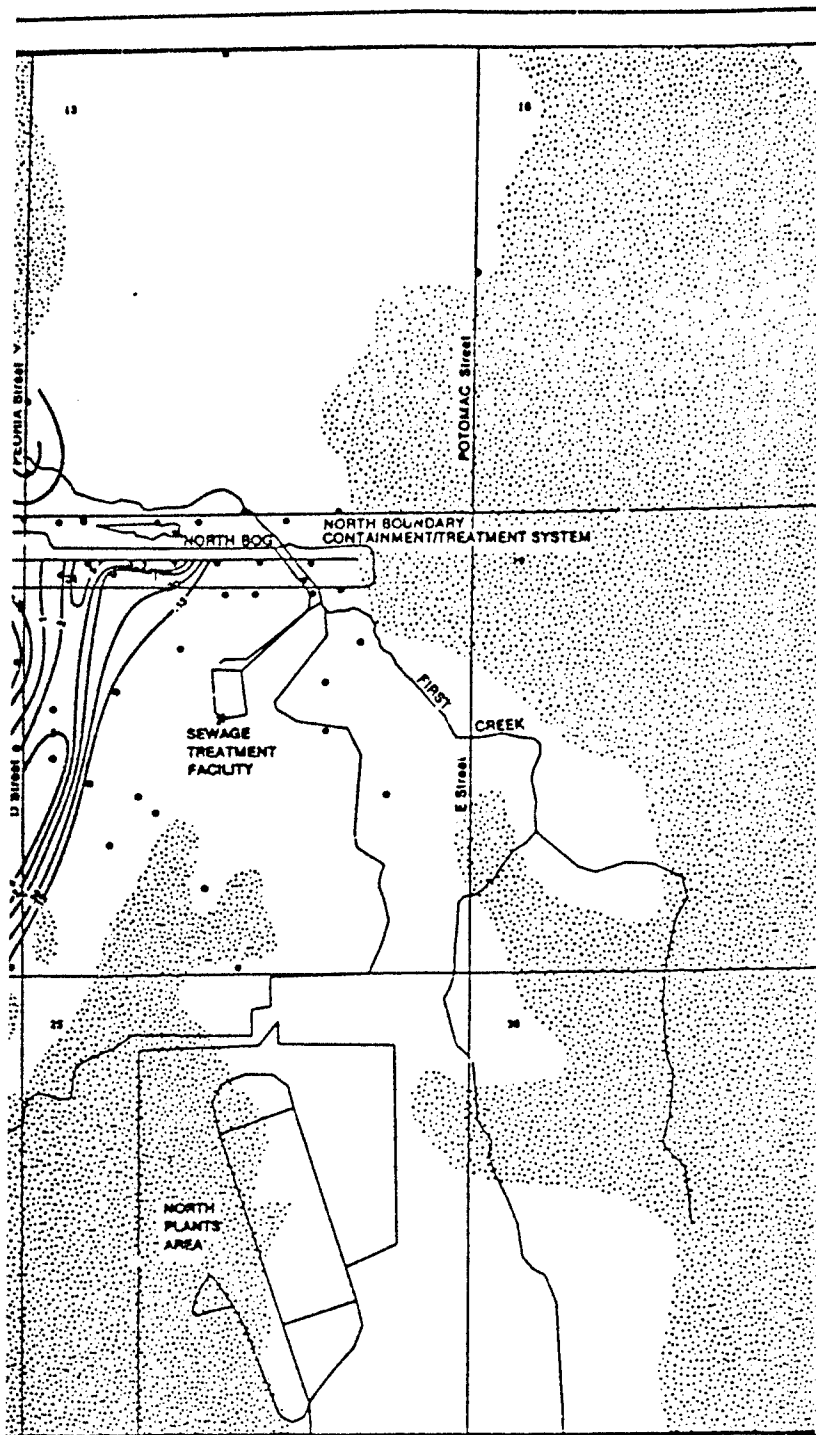


Figure B-69A
 DBCP CONCENTRATION DISTRIBUTION, ug/l,
 1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

— ISOCONCENTRATION LINE

- - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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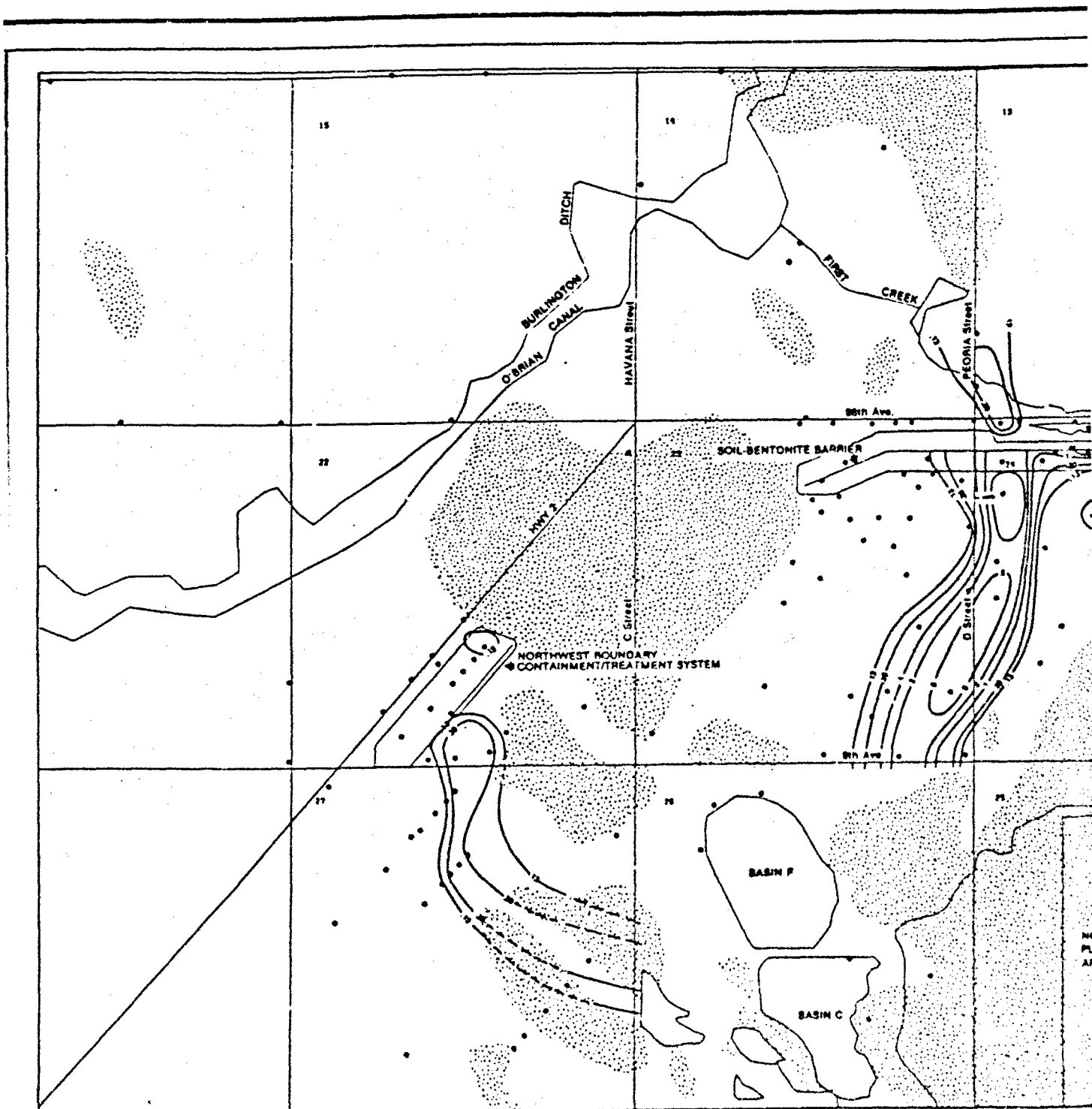
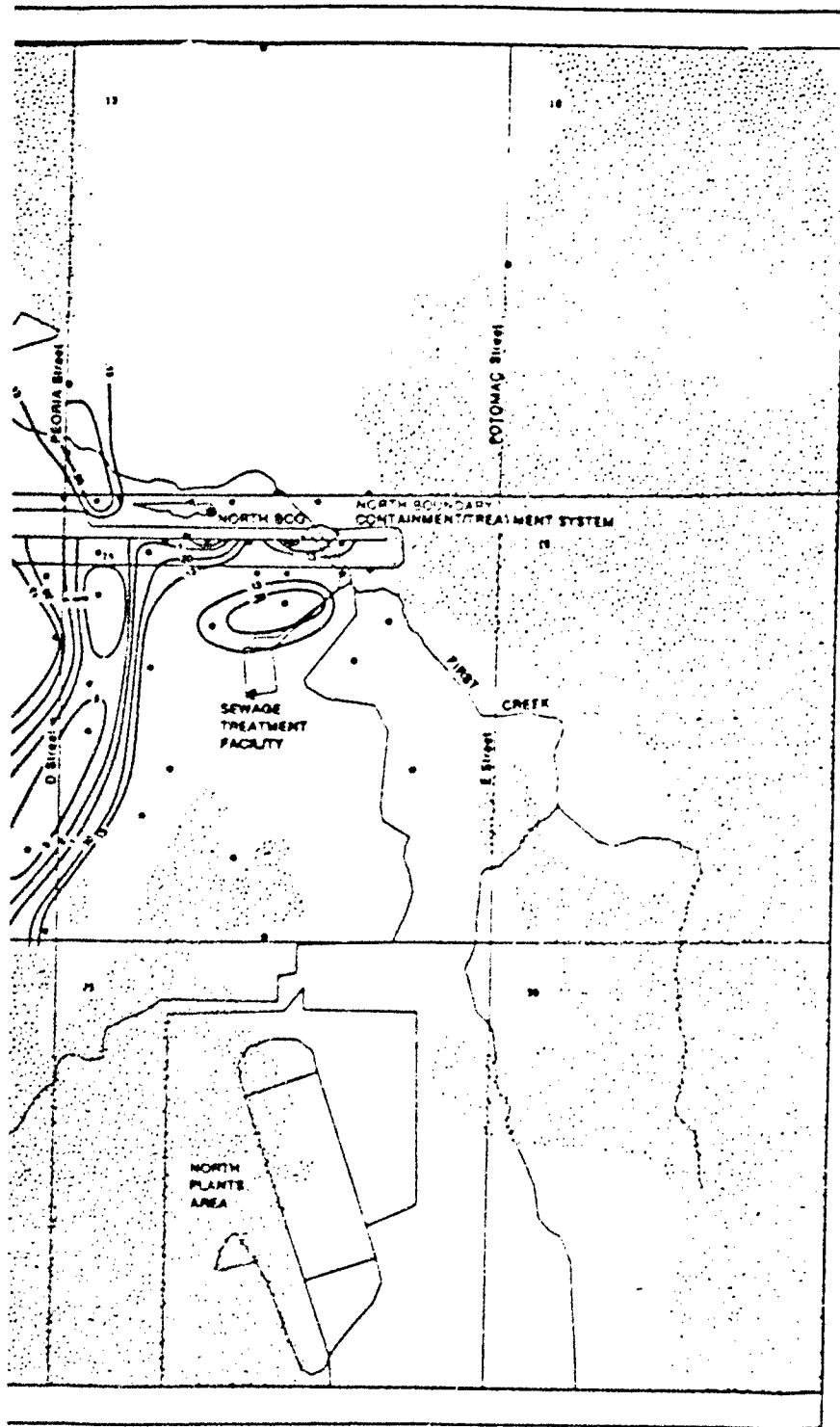


Figure B-69B
 DBCP CONCENTRATION DISTRIBUTION, ug/l,
 2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1989



EXPLANATION

CONCENTRATIONS IN $\mu\text{g/l}$

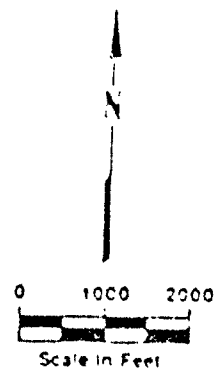
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INFERRED

○ NETWORK MONITORING WELL,
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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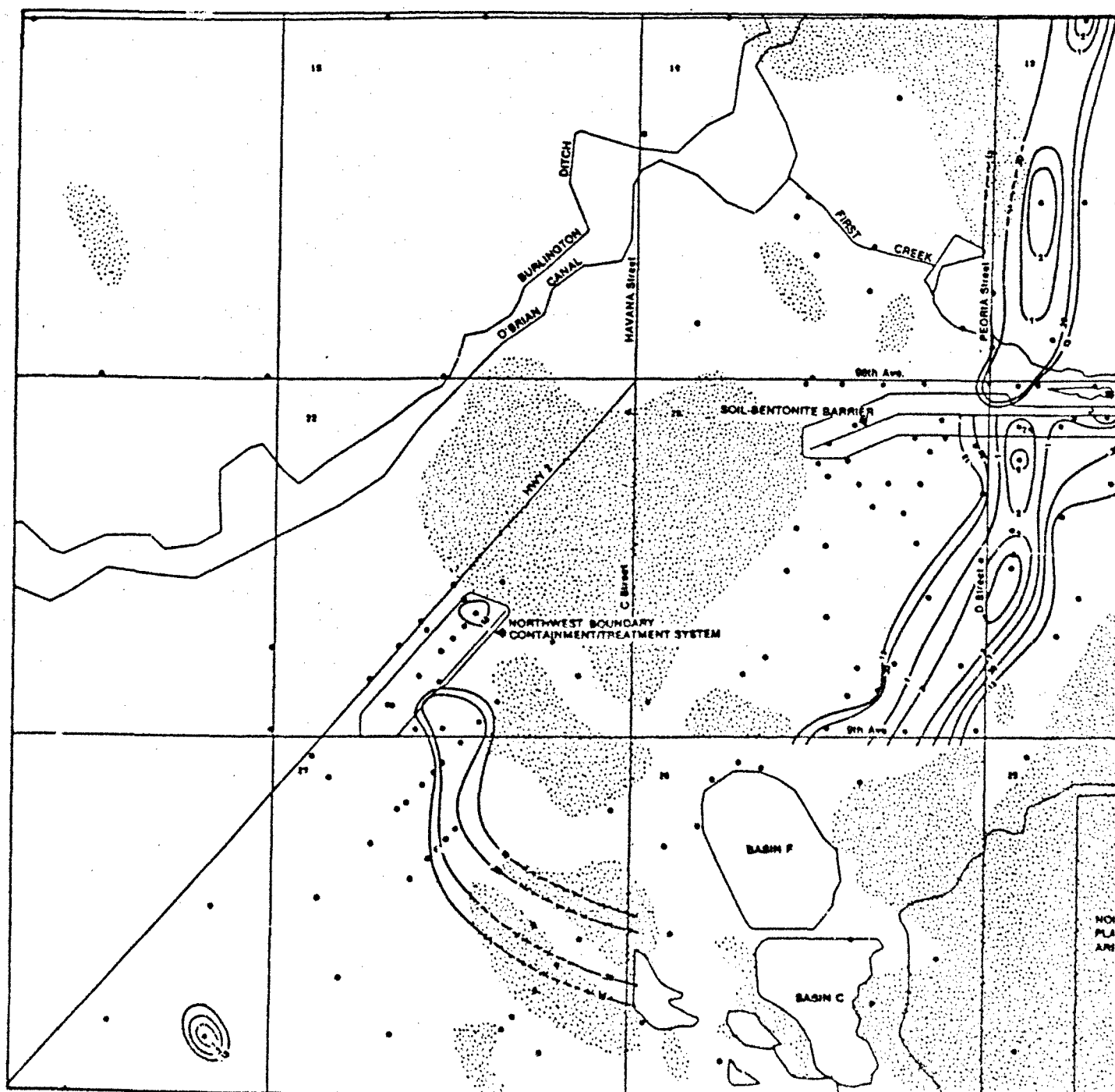
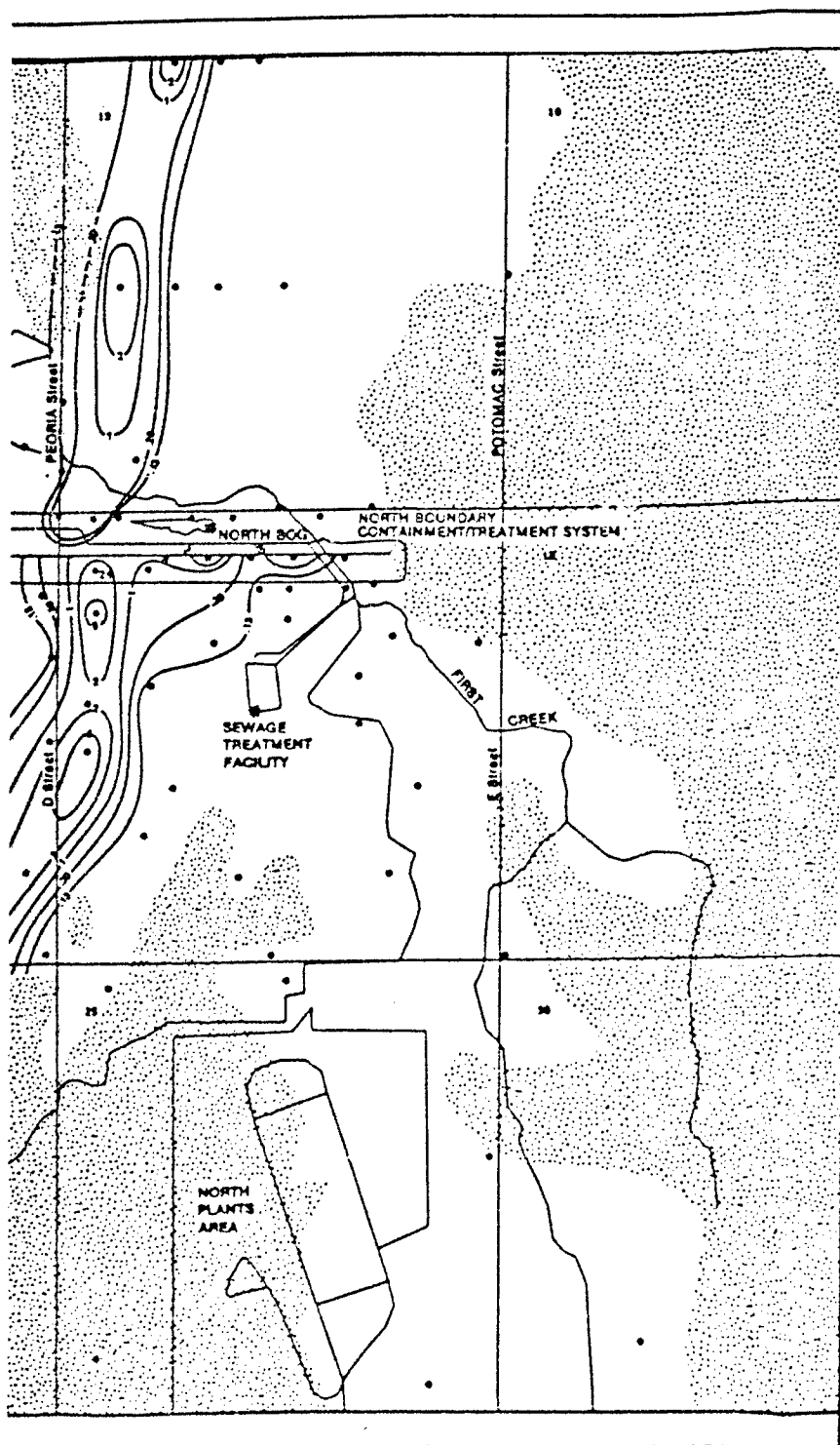


Figure B-69C
 DBCP CONCENTRATION DISTRIBUTION, ug/l,
 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

— 1 — ISOCONCENTRATION LINE

- - - 1 - - - ISOCONCENTRATION LINE INFERRED

○ NETWORK MONITORING WELL. SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED THIS QUARTER

UNSATURATED ALLUVIUM



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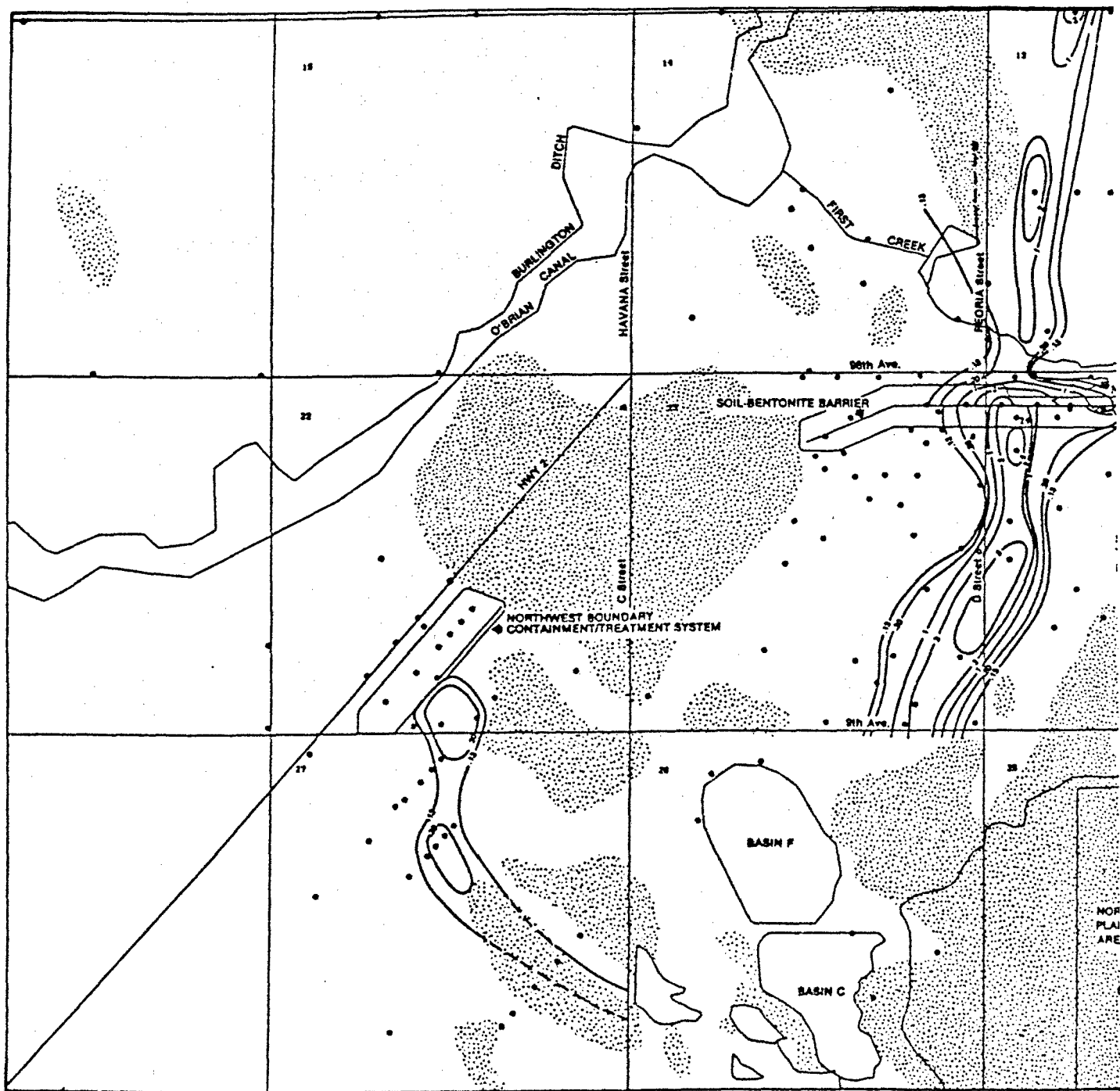


Figure B-69D
BCP CONCENTRATION DISTRIBUTION, ug/l,
1st QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988

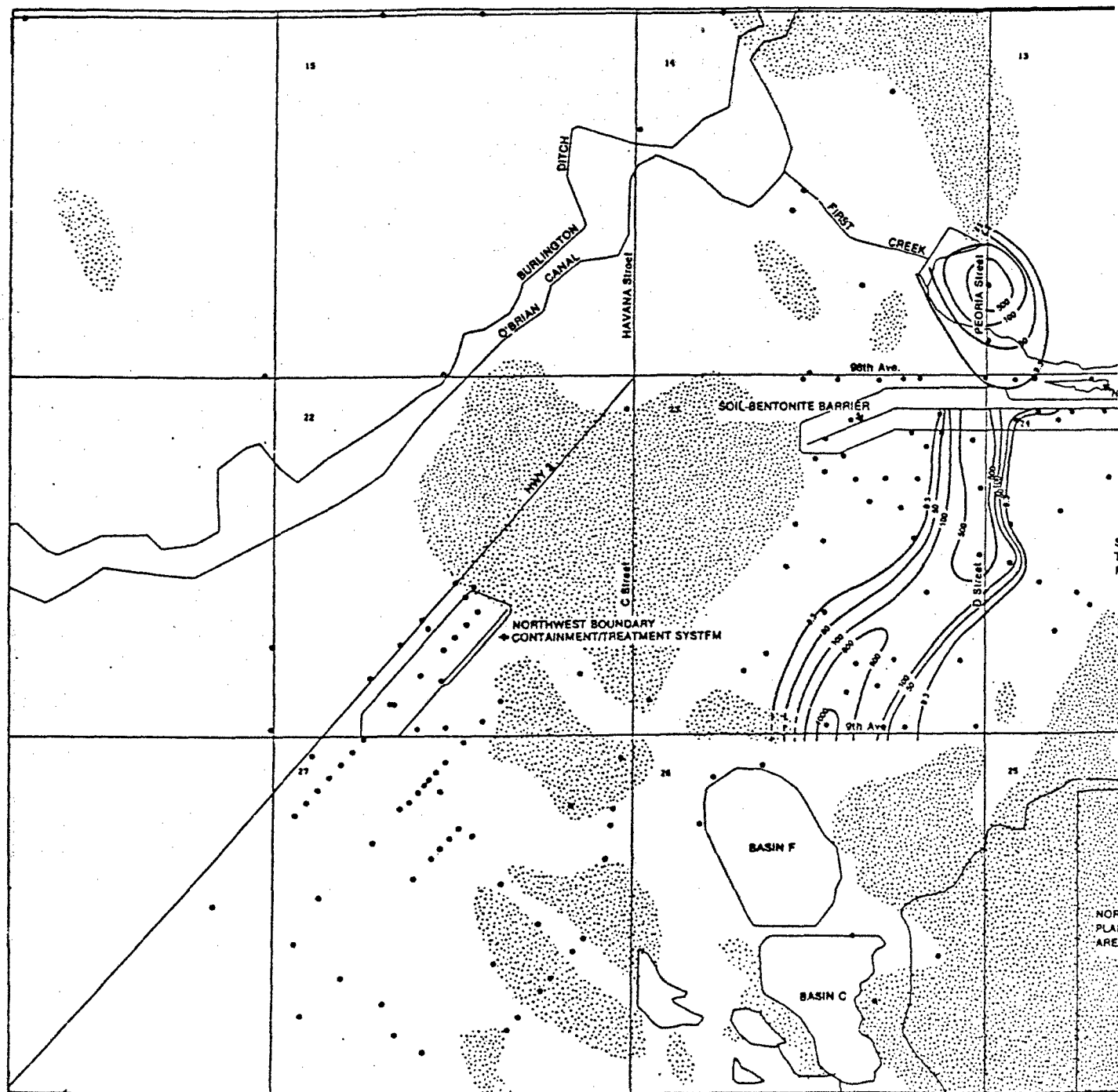
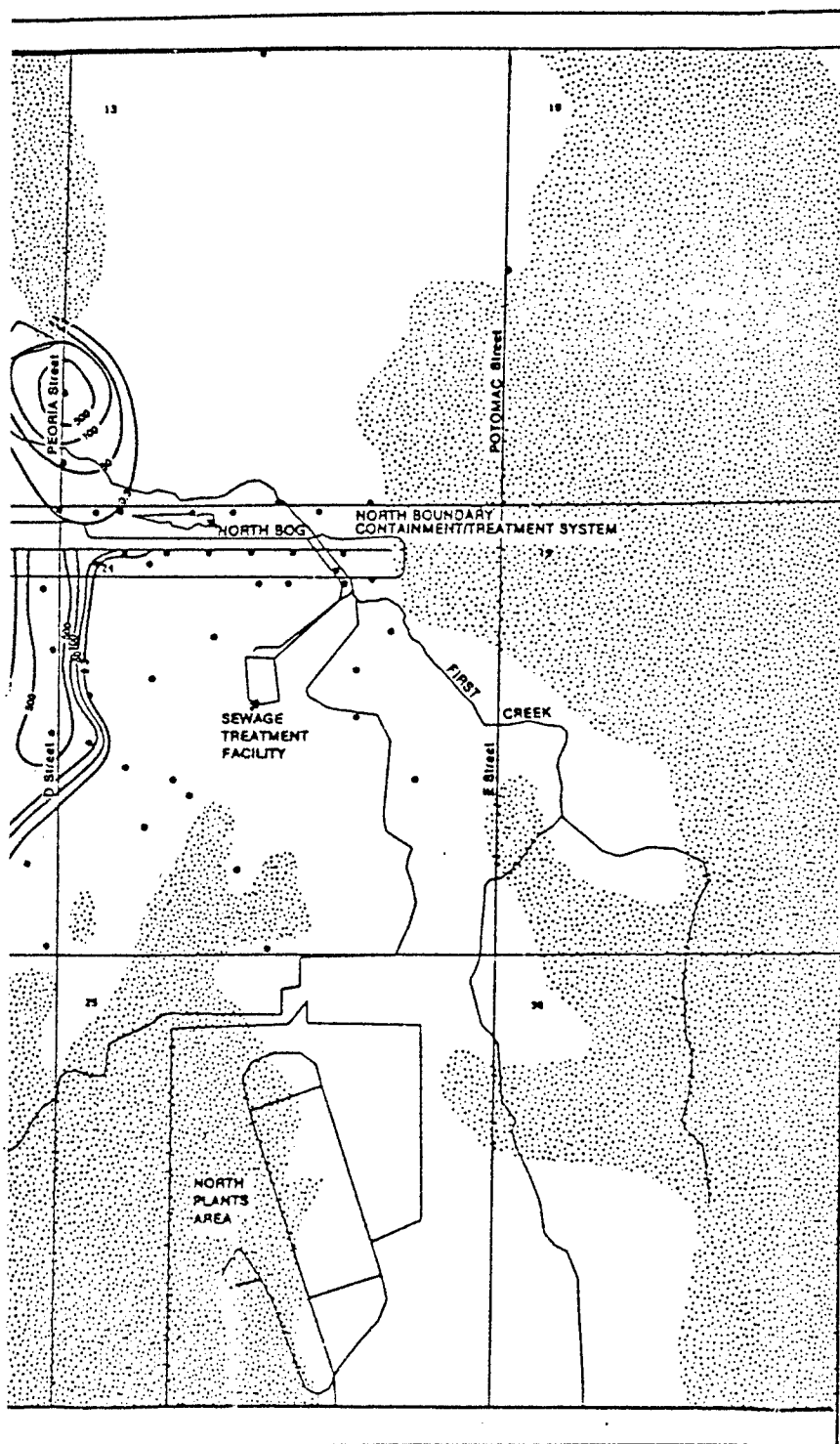


Figure B-70A
 CPD CONCENTRATION DISTRIBUTION, ug/l,
 ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

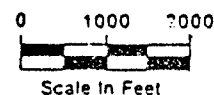
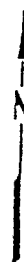
— ISOCONCENTRATION LINE

- - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL.
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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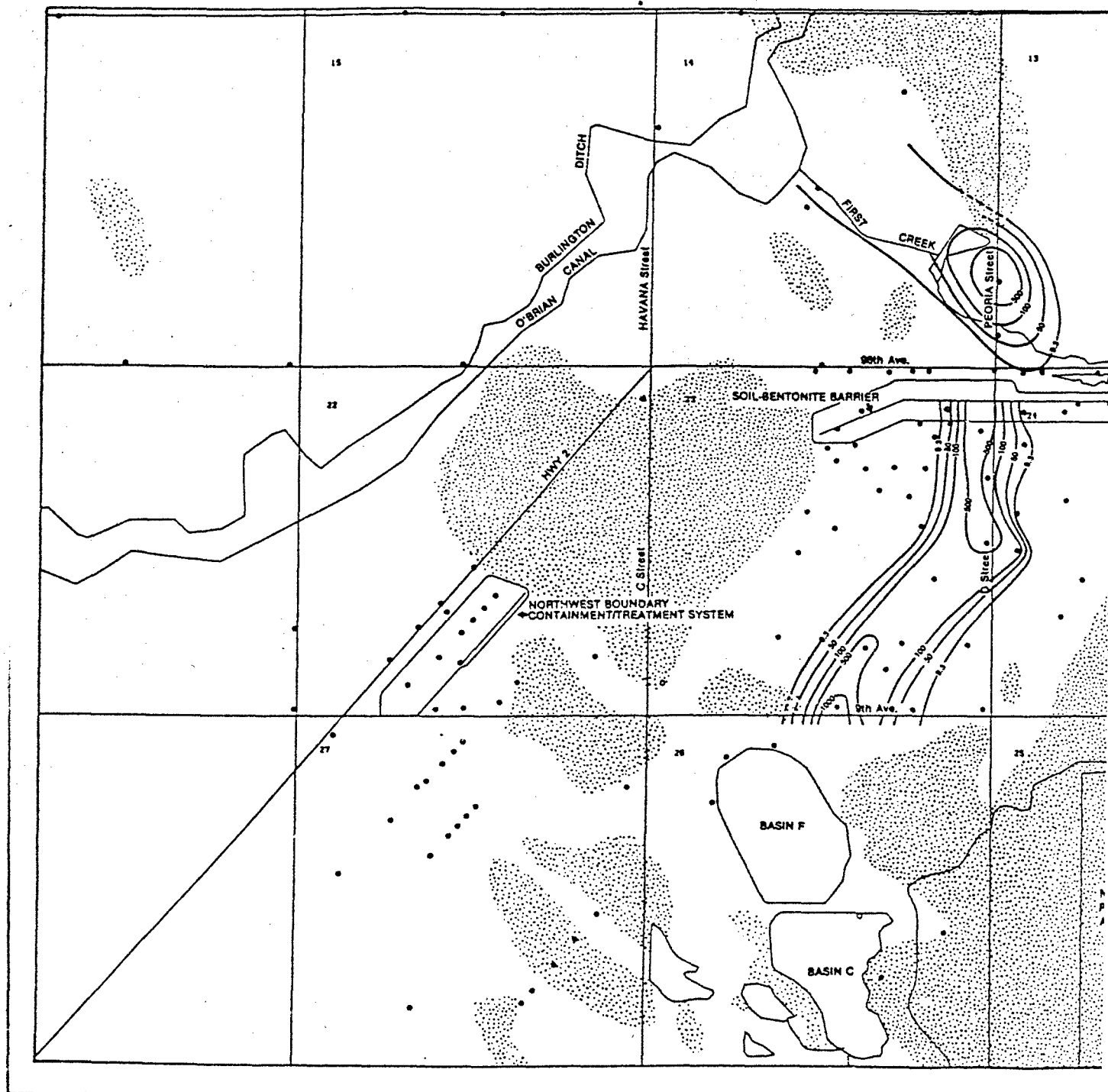
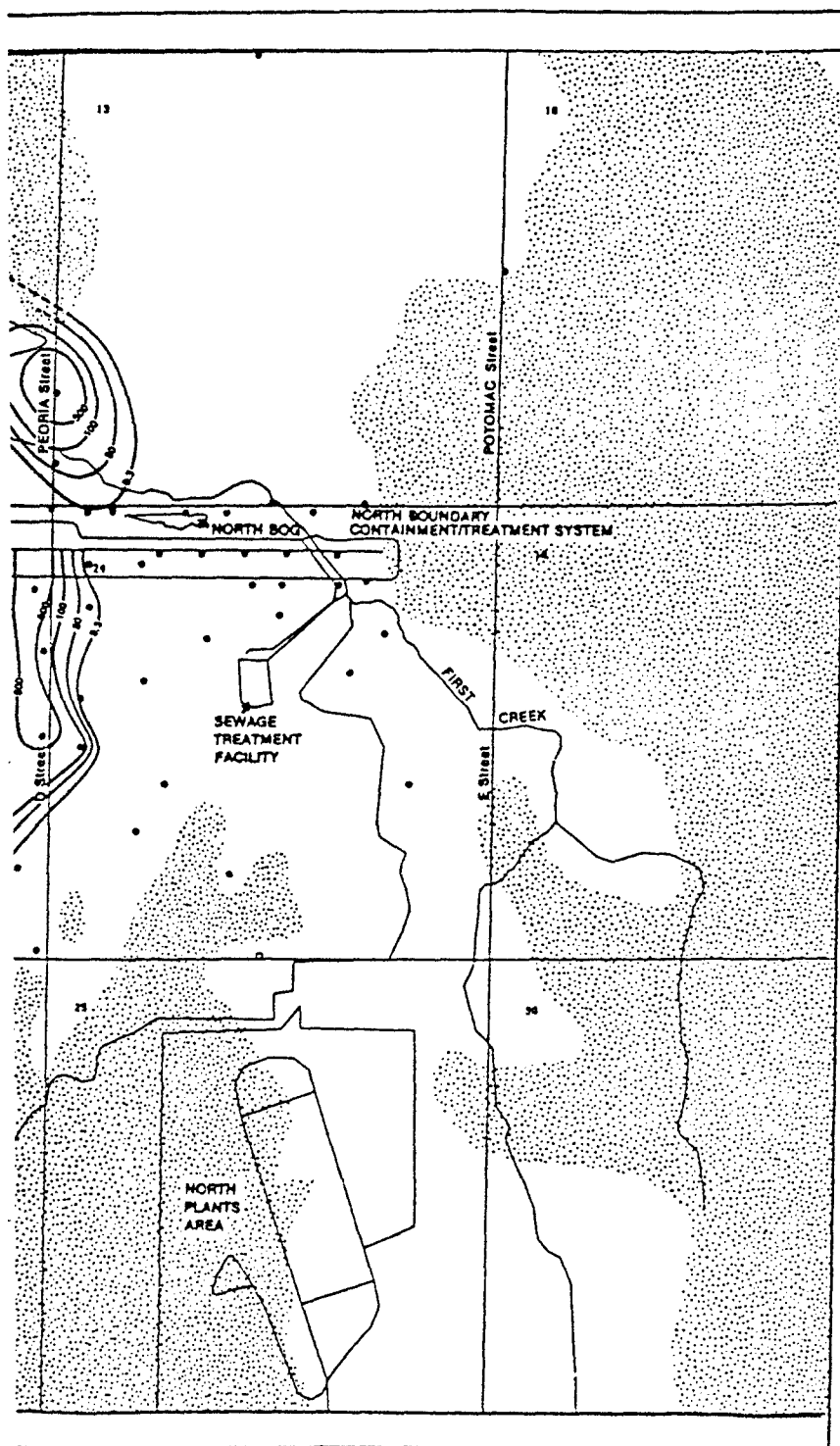


Figure B-708
DCPD CONCENTRATION DISTRIBUTION, ug/l,
2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

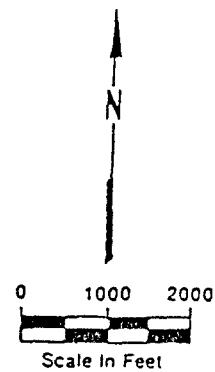
— 1 — ISOCONCENTRATION LINE

- - - 1 - - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

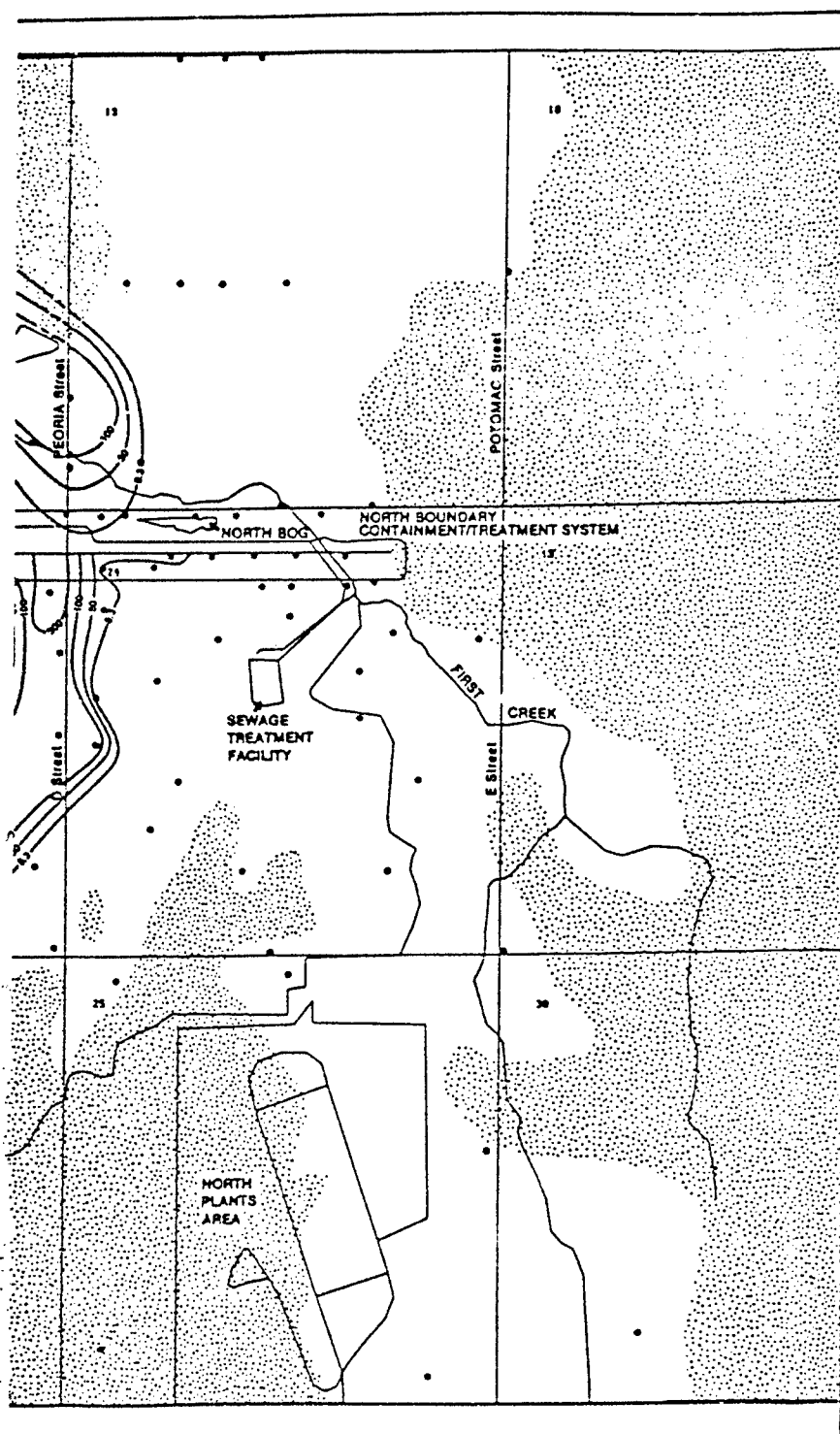
○ UNSATURATED ALLUVIUM



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EXPLANATION

CONCENTRATIONS IN ug/l

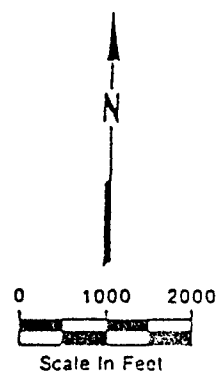
— 1 — ISOCONCENTRATION LINE

- - - 1 - - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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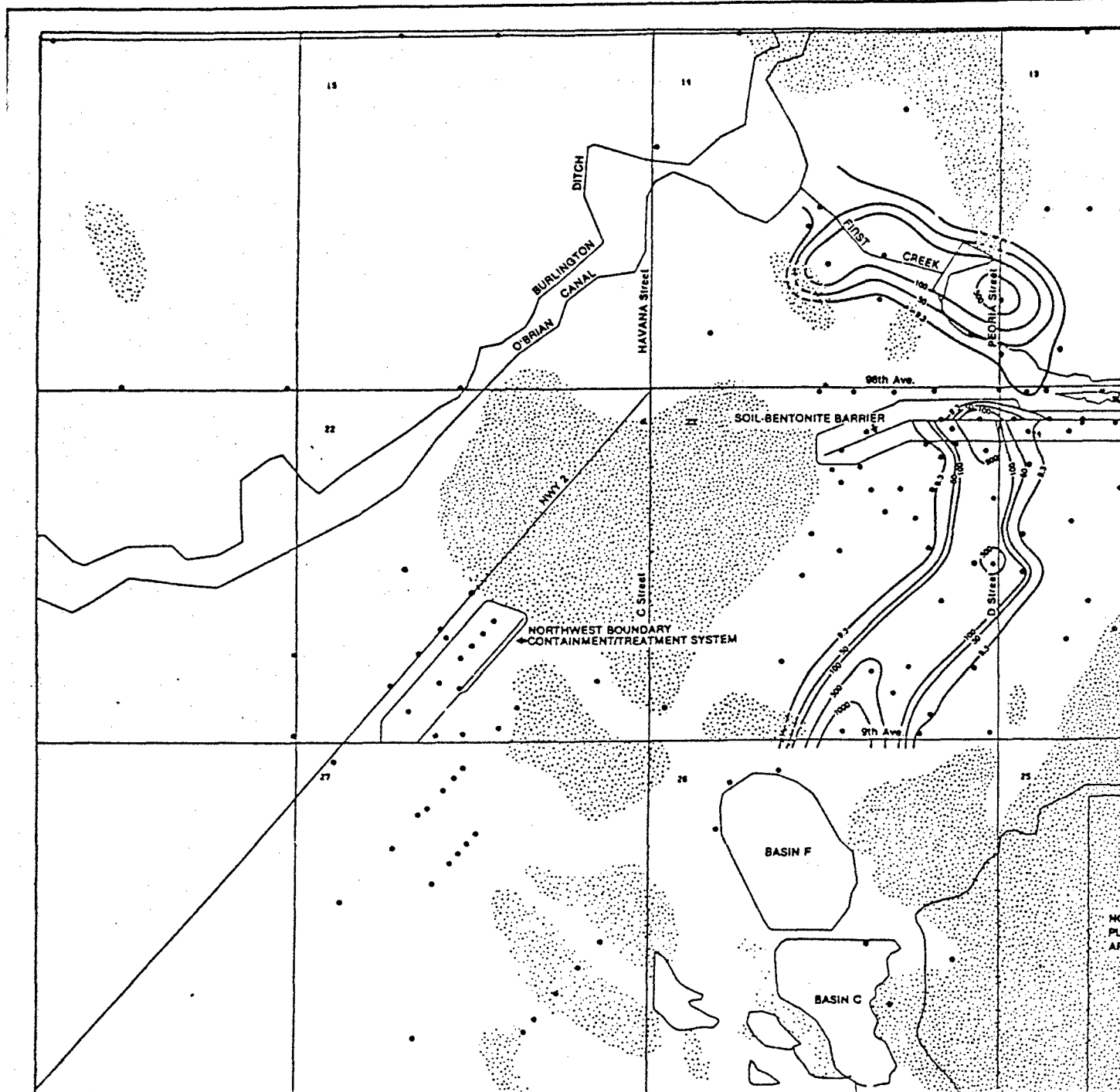
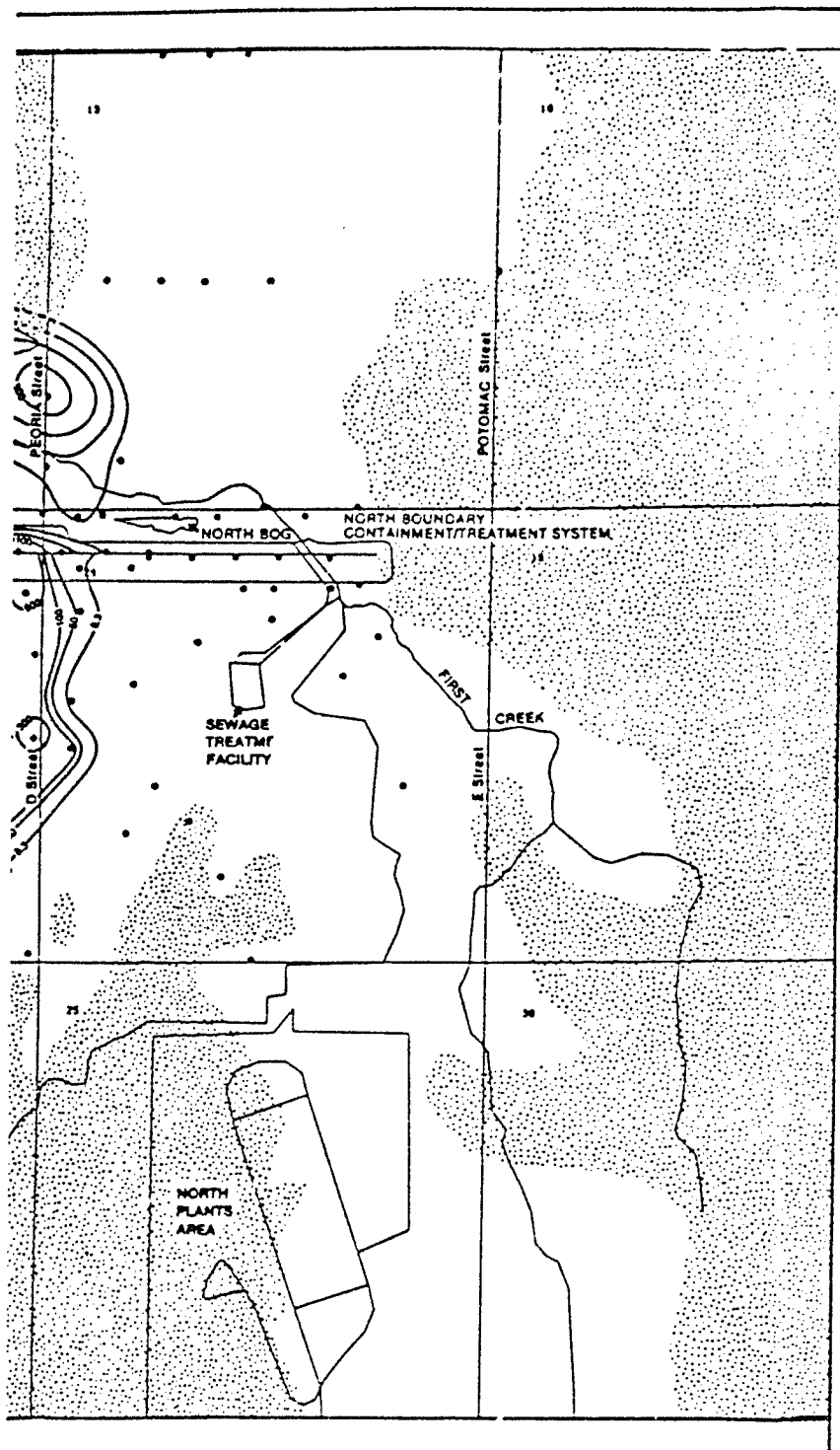


Figure B-70 D
DCPD CONCENTRATION DISTRIBUTION, $\mu\text{g/l}$,
4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

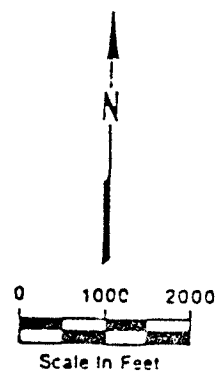
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- - - 1 - - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL -
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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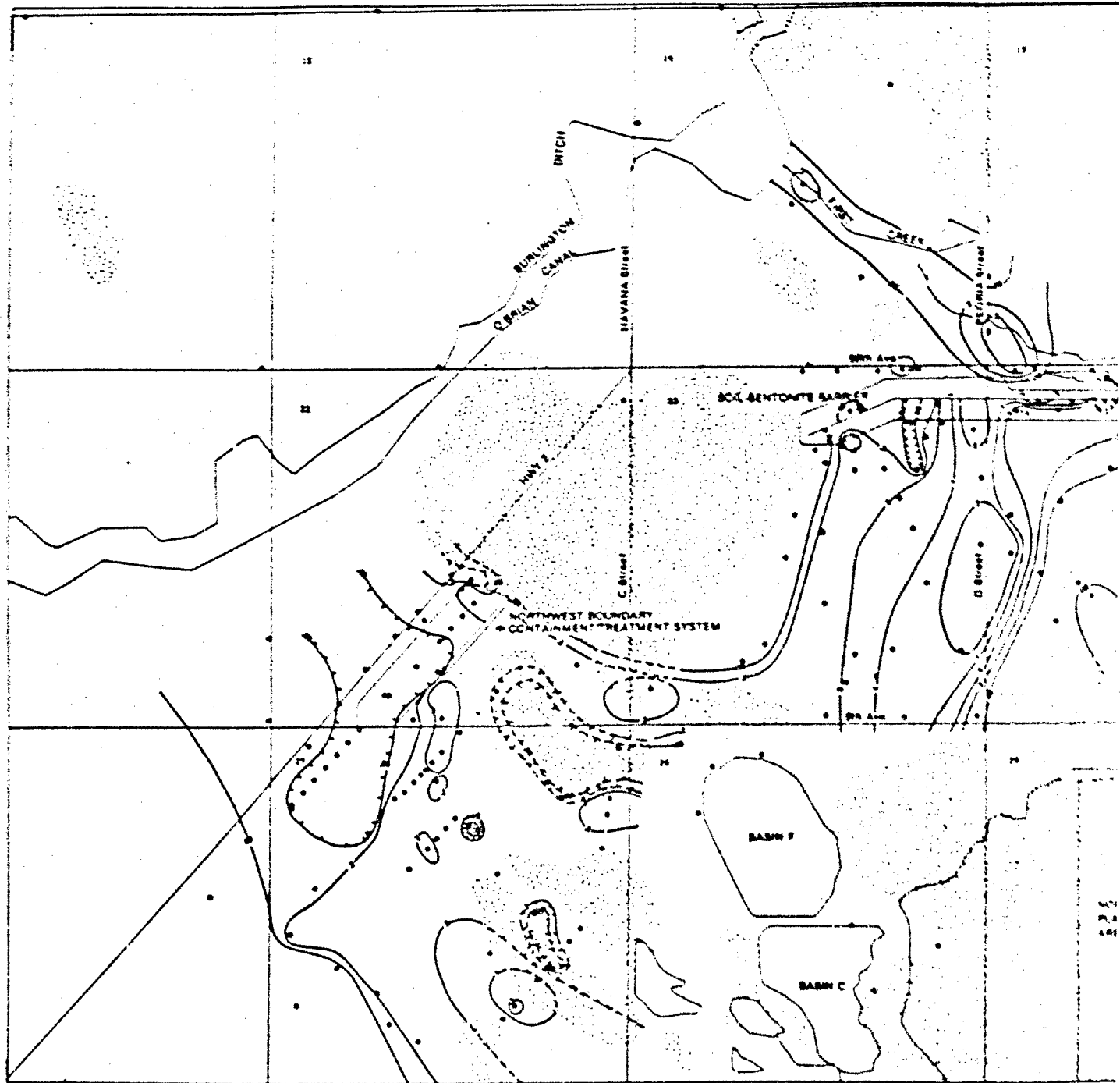
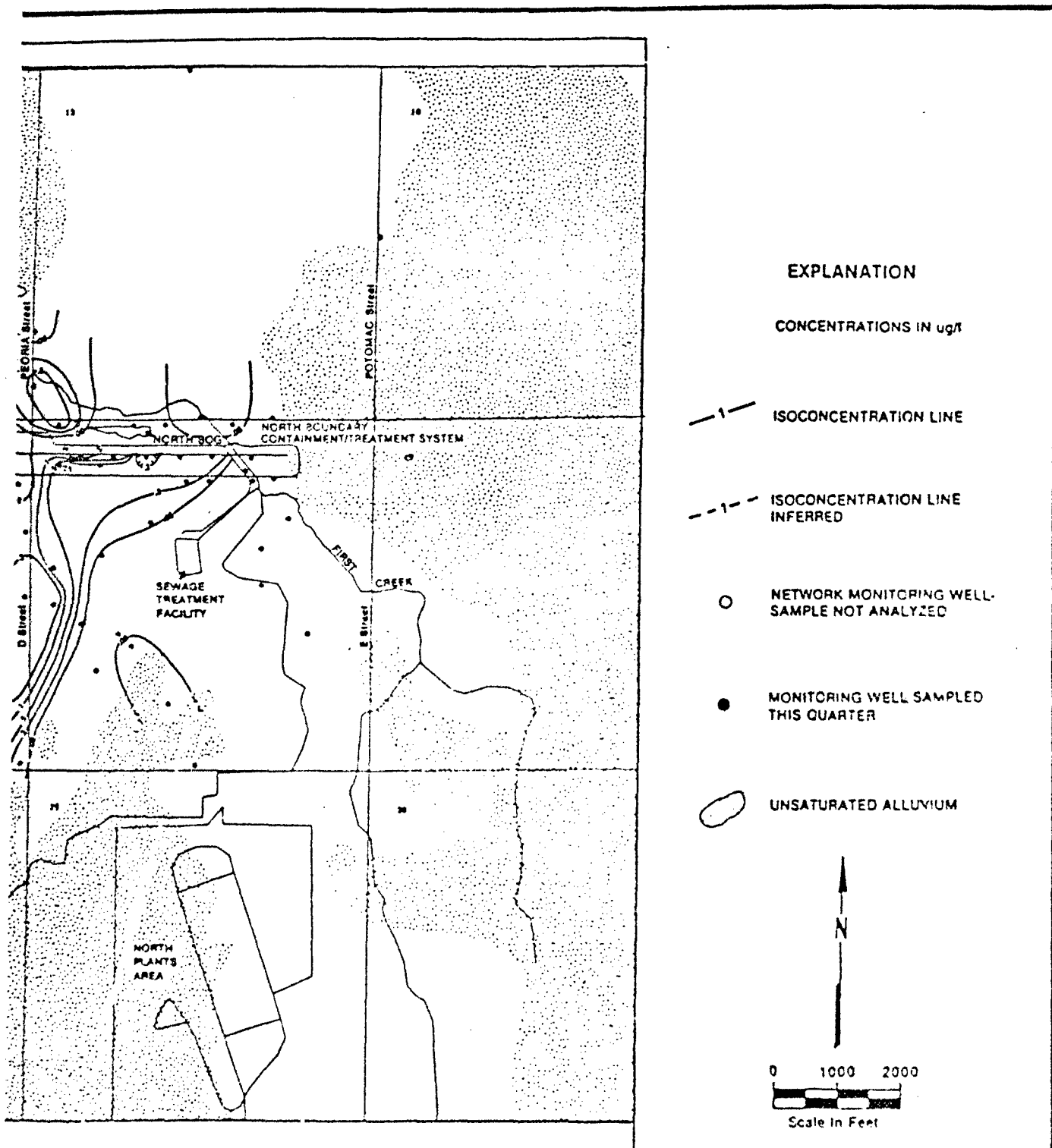


Figure B-71A
 DIELDRIN CONCENTRATION DISTRIBUTION, ug/l,
 ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988

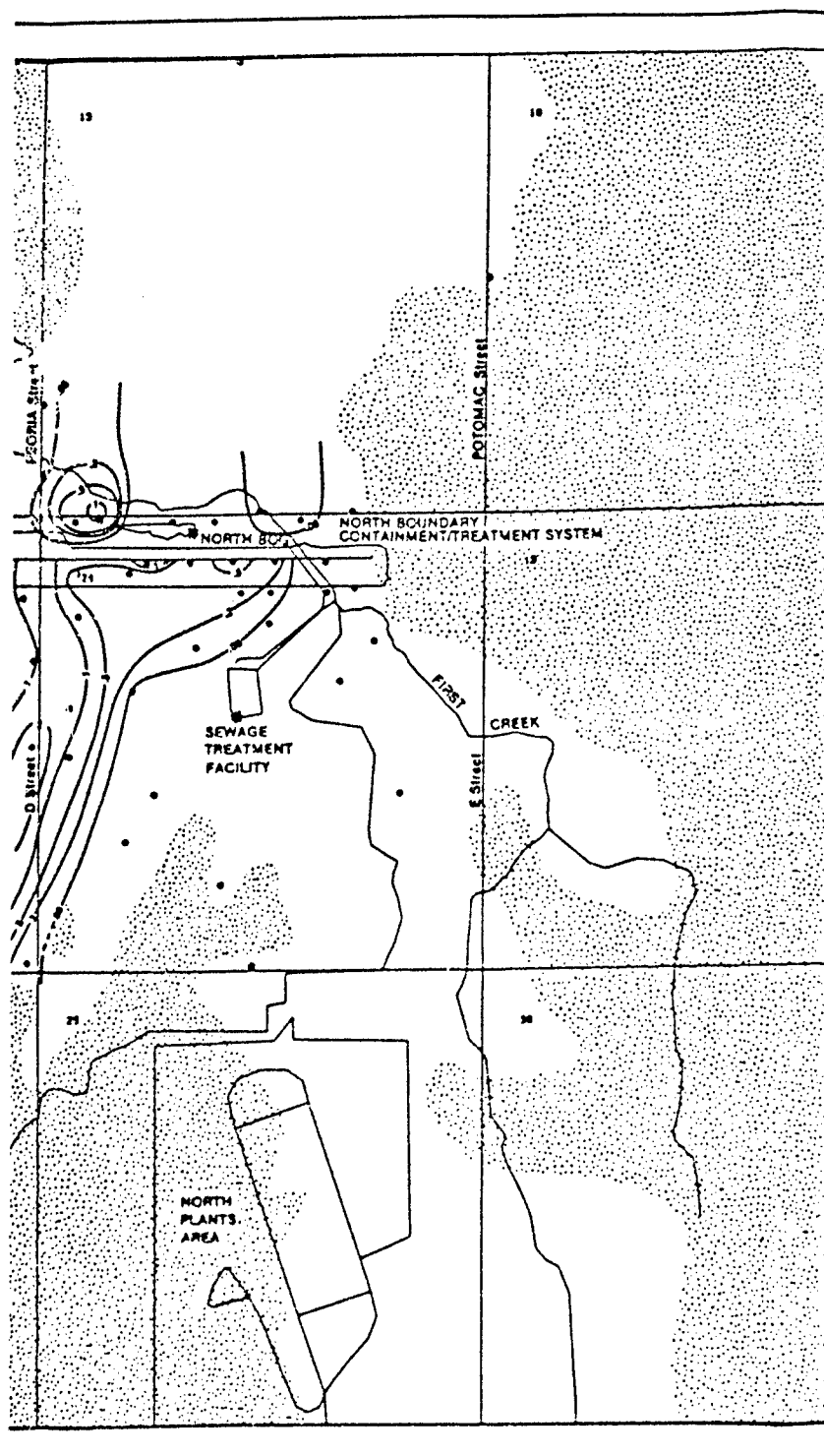


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SOURCE ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

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ISOCONCENTRATION LINE
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○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM

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Scale In Feet

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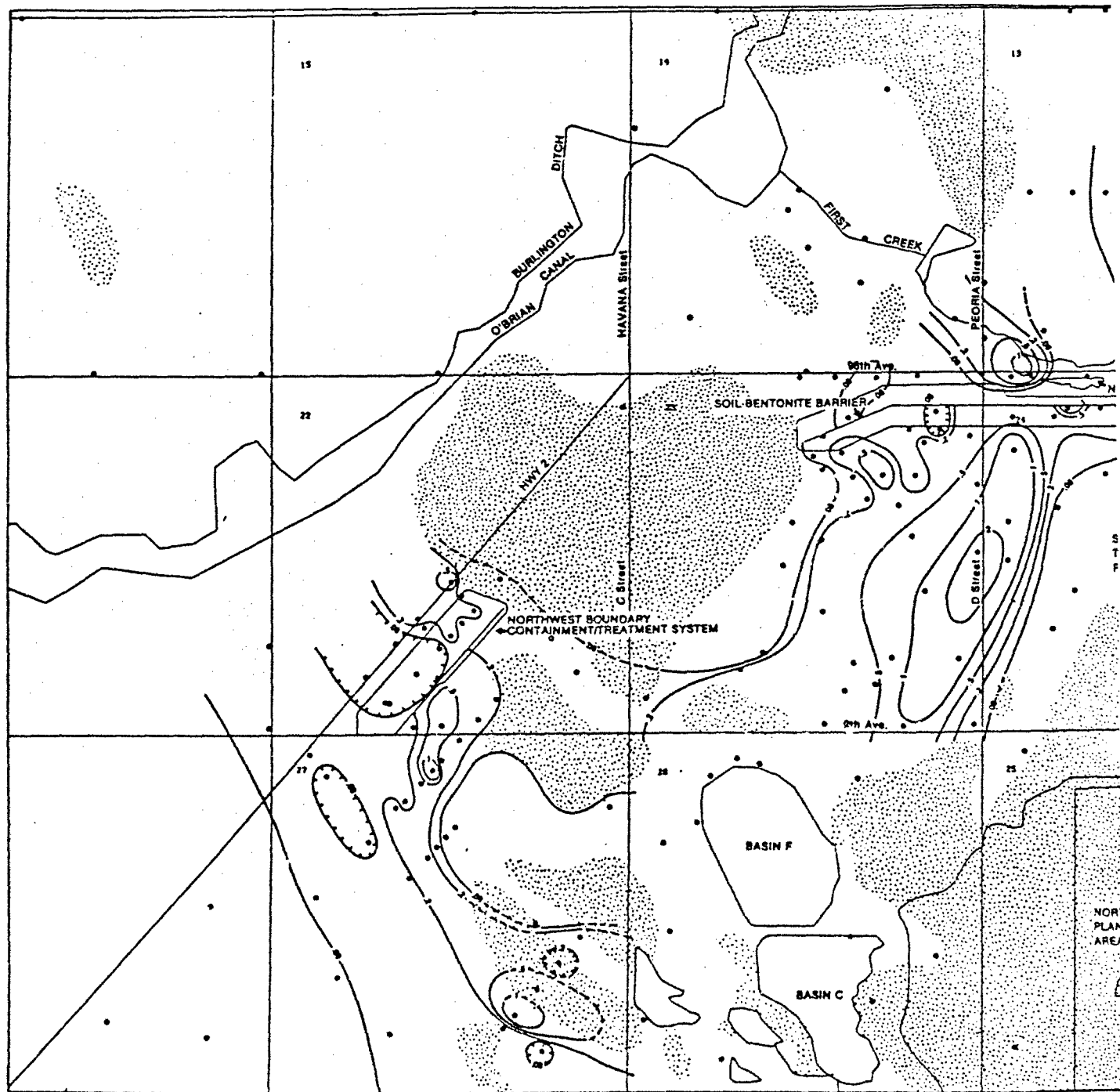
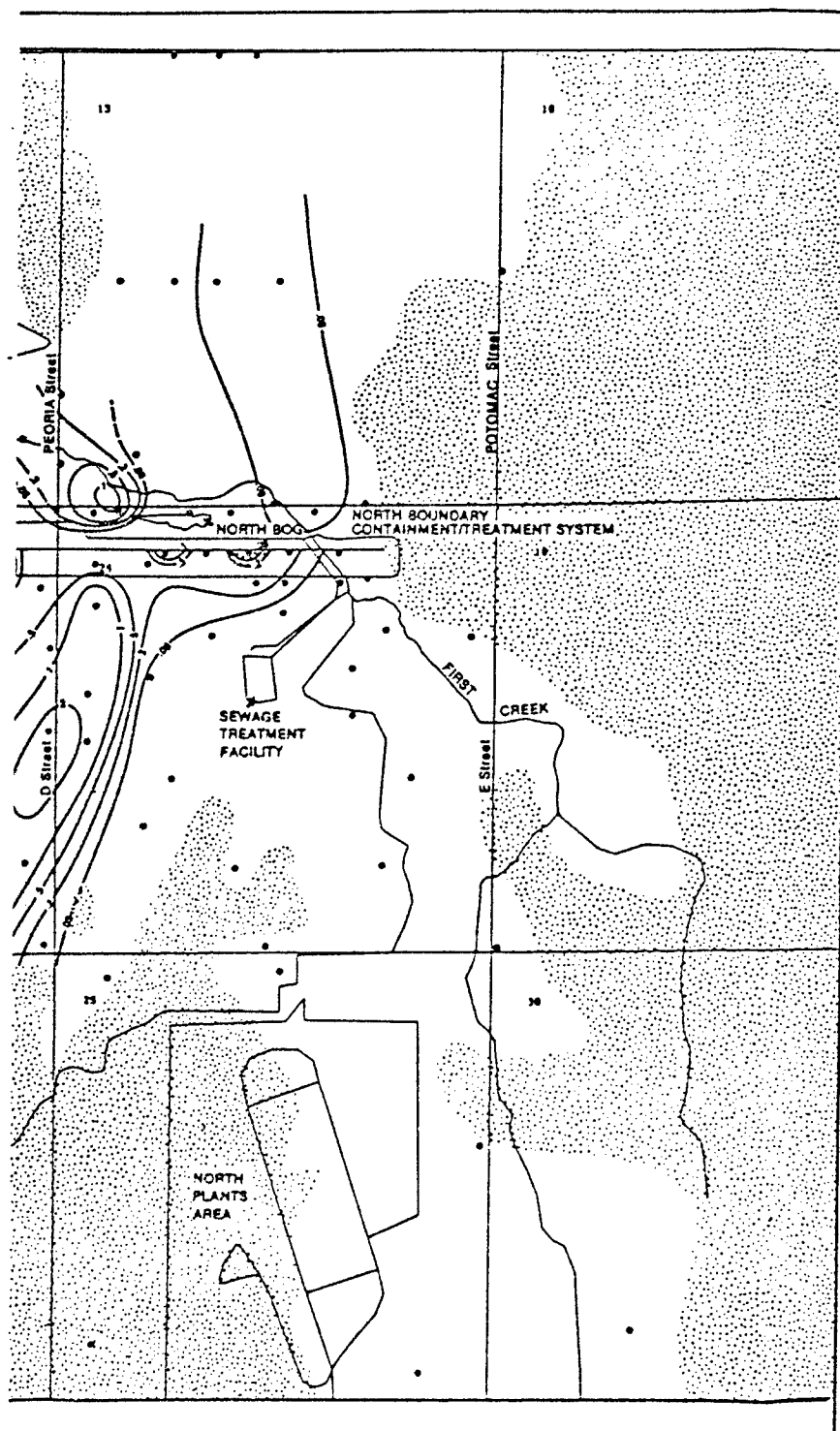


Figure B-71C
 IELDRIN CONCENTRATION DISTRIBUTION, ug/l,
 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

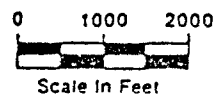
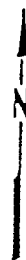
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INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
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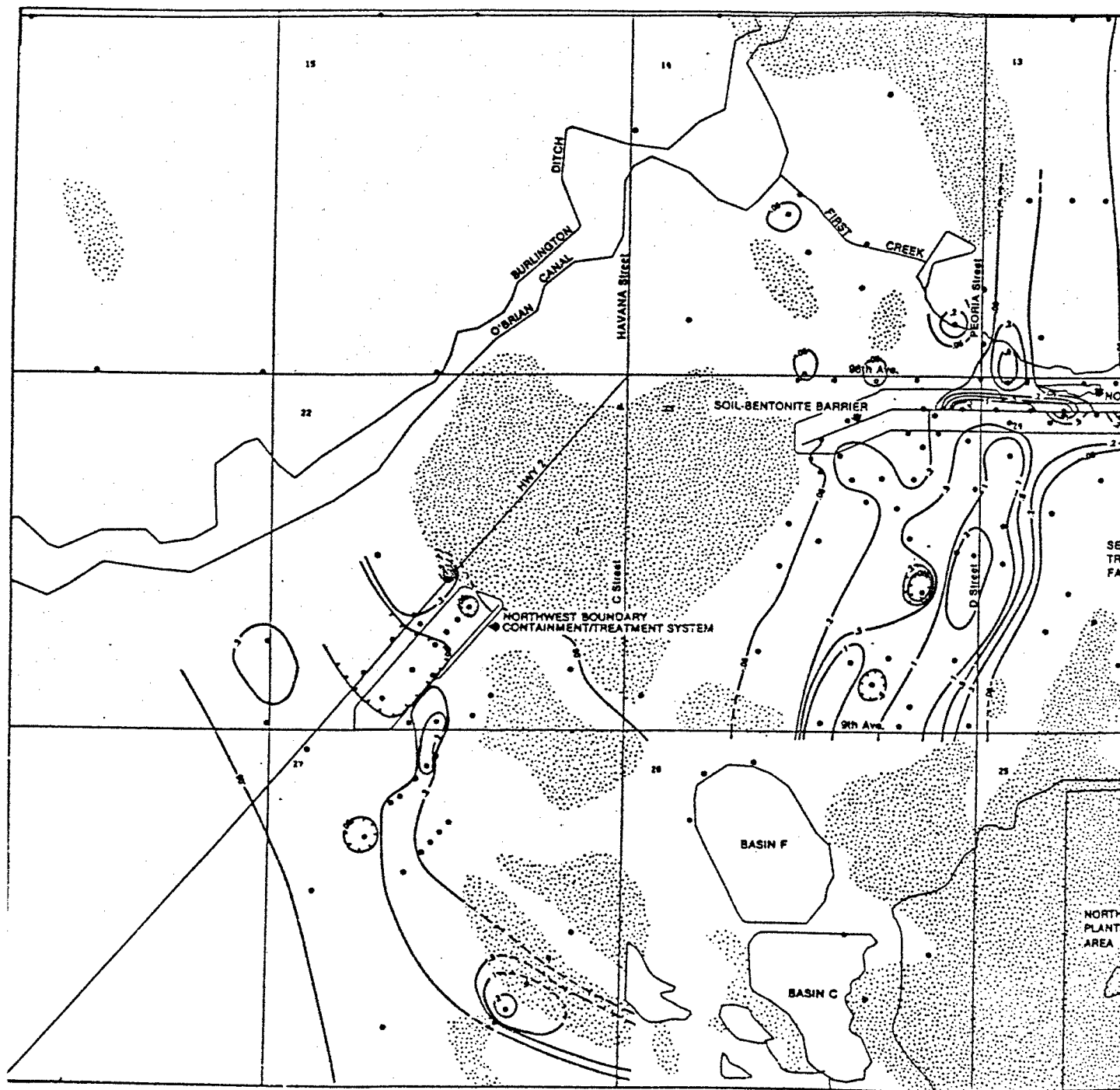
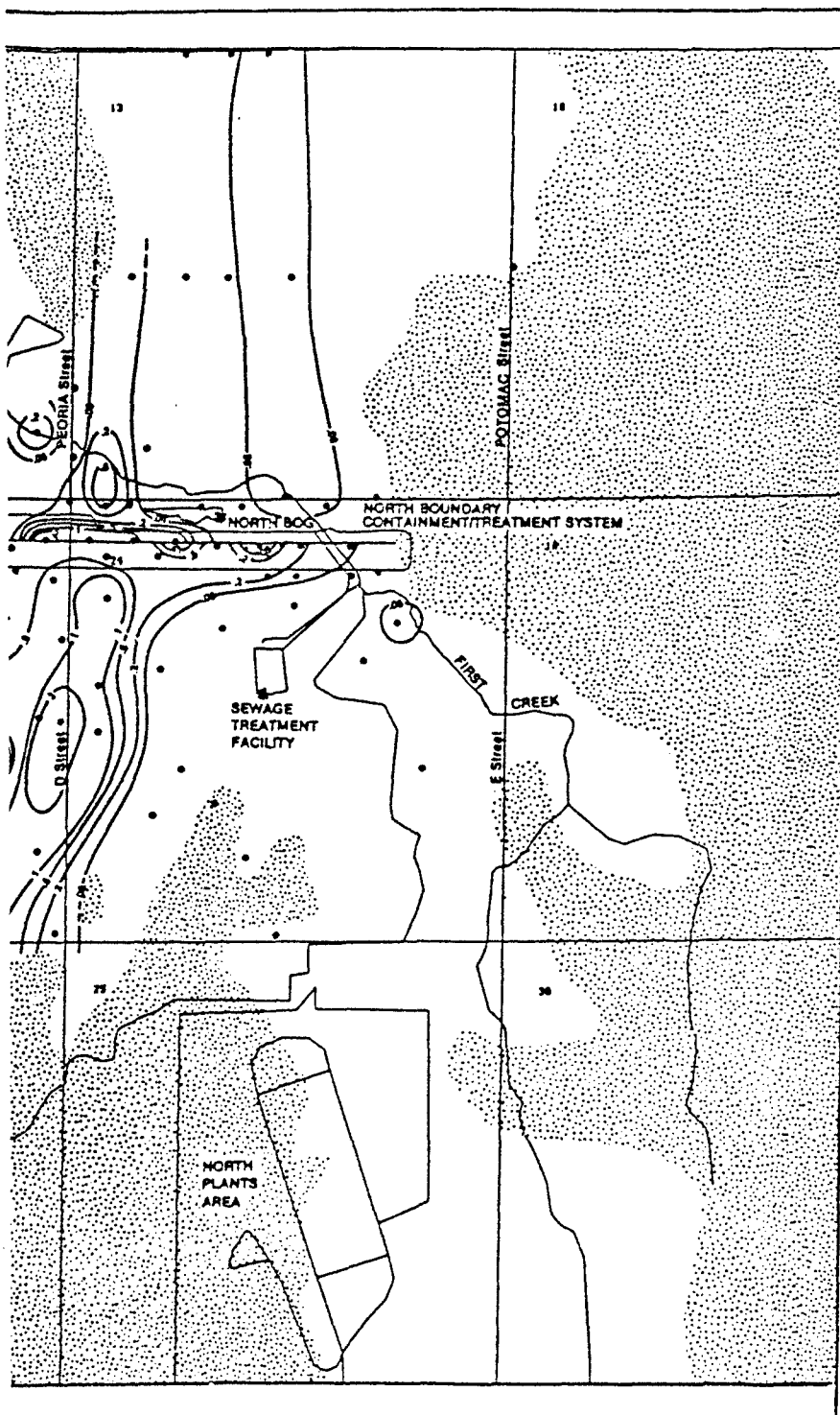


Figure B-71 D
 ELDRIN CONCENTRATION DISTRIBUTION, ug/l,
 H QUARTER, FY87, ALLUVIAL AQUIFER



EXPLANATION

CONCENTRATIONS IN ug/l

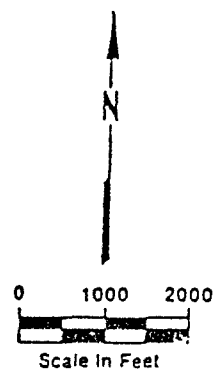
— ISOCONCENTRATION LINE

- - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
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○ UNSATURATED ALLUVIUM



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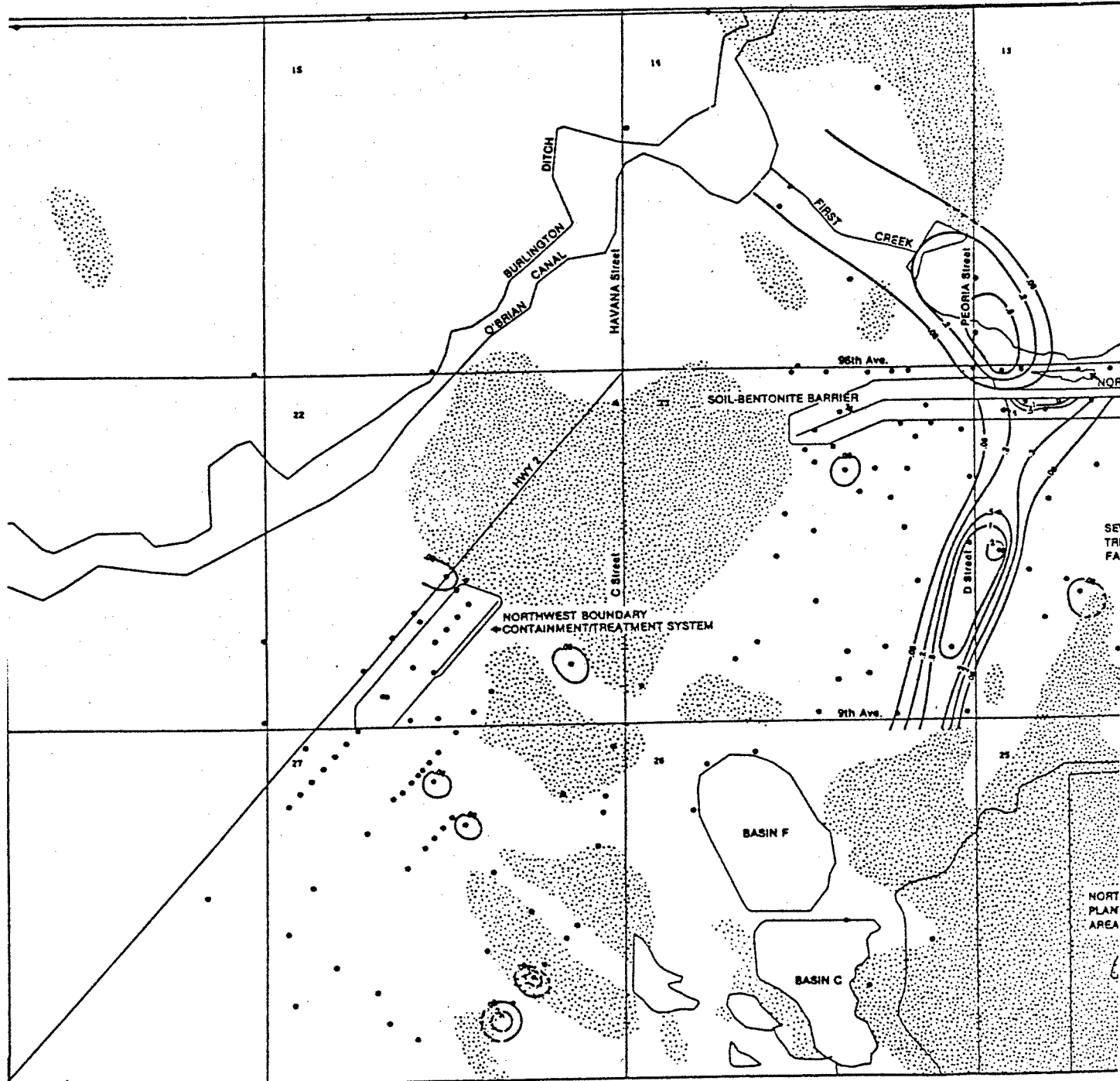
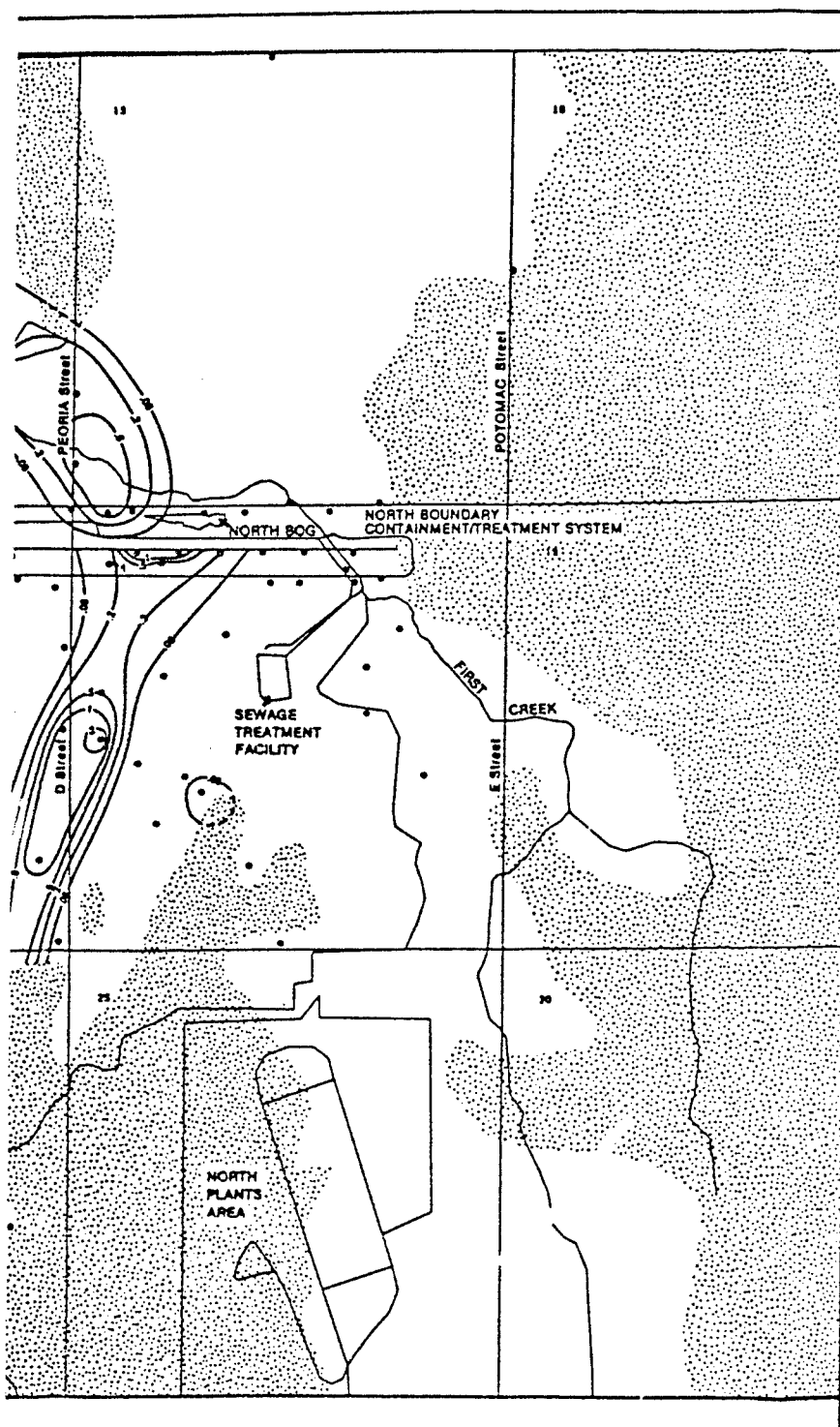


Figure B-72A
 VDRIN CONCENTRATION DISTRIBUTION, ug/l,
 1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

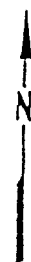
— 1 — ISOCONCENTRATION LINE

- - - 1 - - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



0 1000 2000
Scale In Feet

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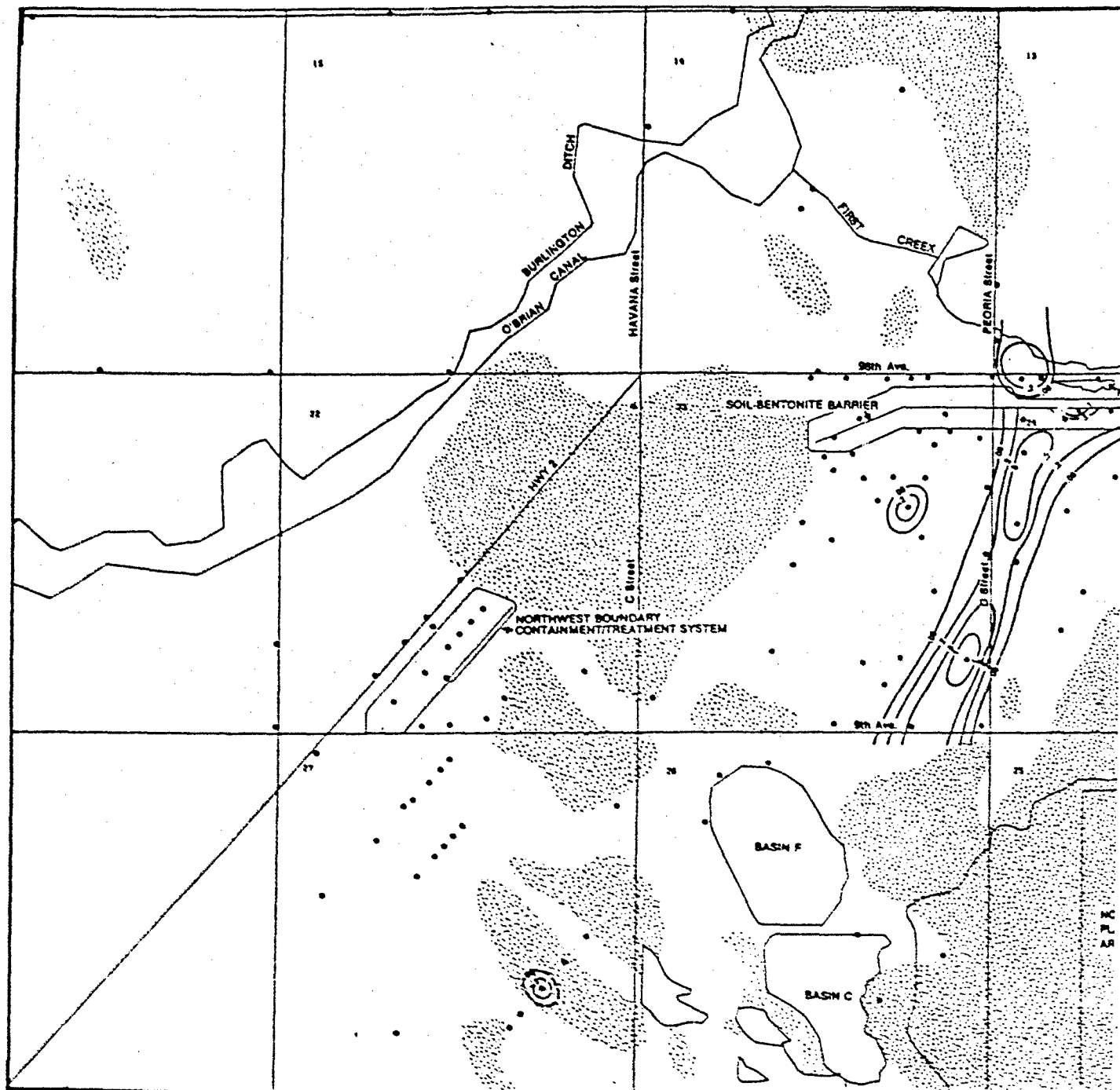
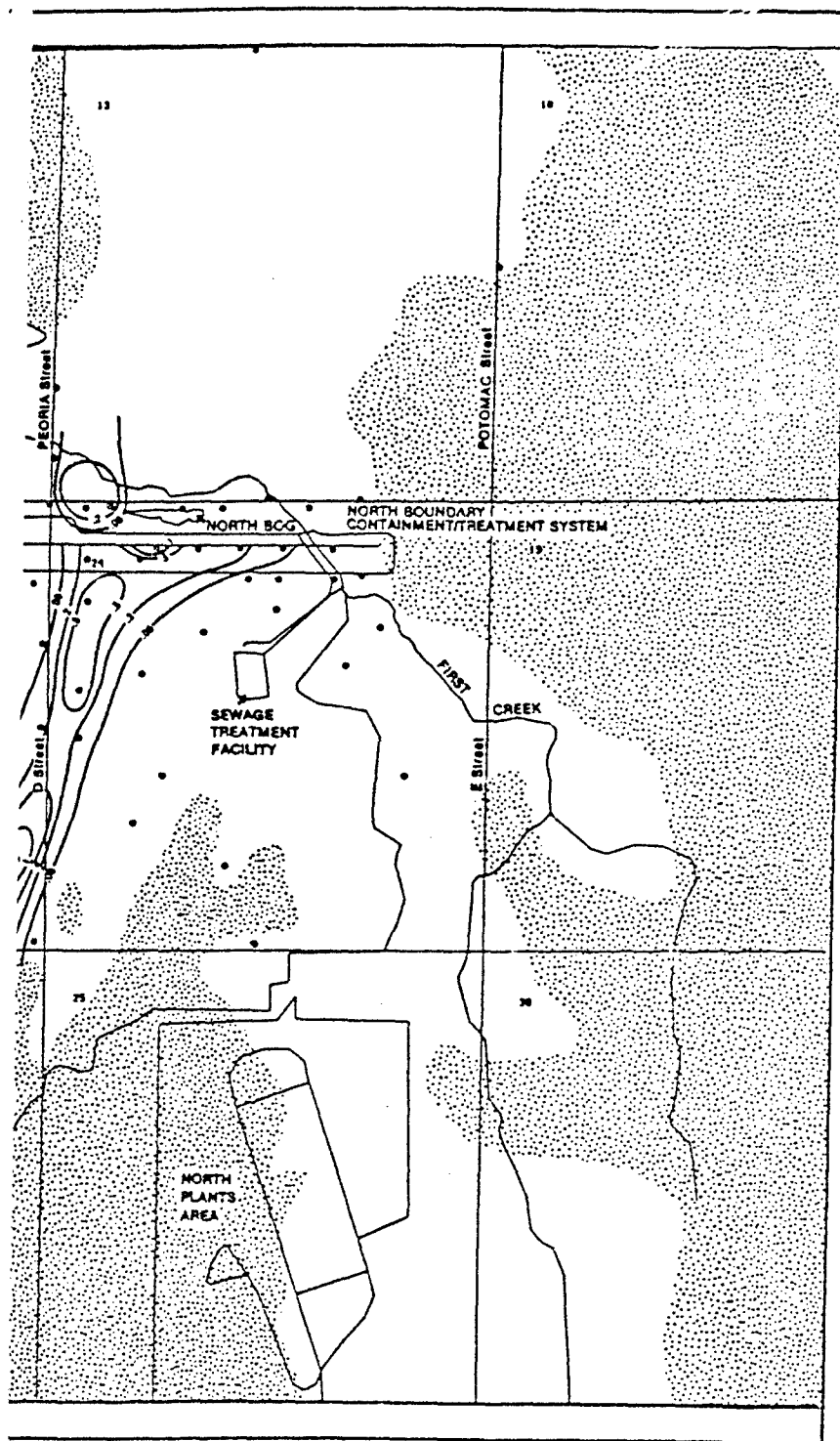


Figure B-72B
 ENDRIN CONCENTRATION DISTRIBUTION, ug/l,
 2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1983



EXPLANATION

CONCENTRATIONS IN $\mu\text{g/l}$

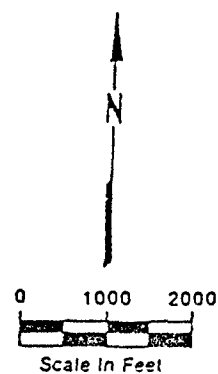
— ISOCONCENTRATION LINE

- - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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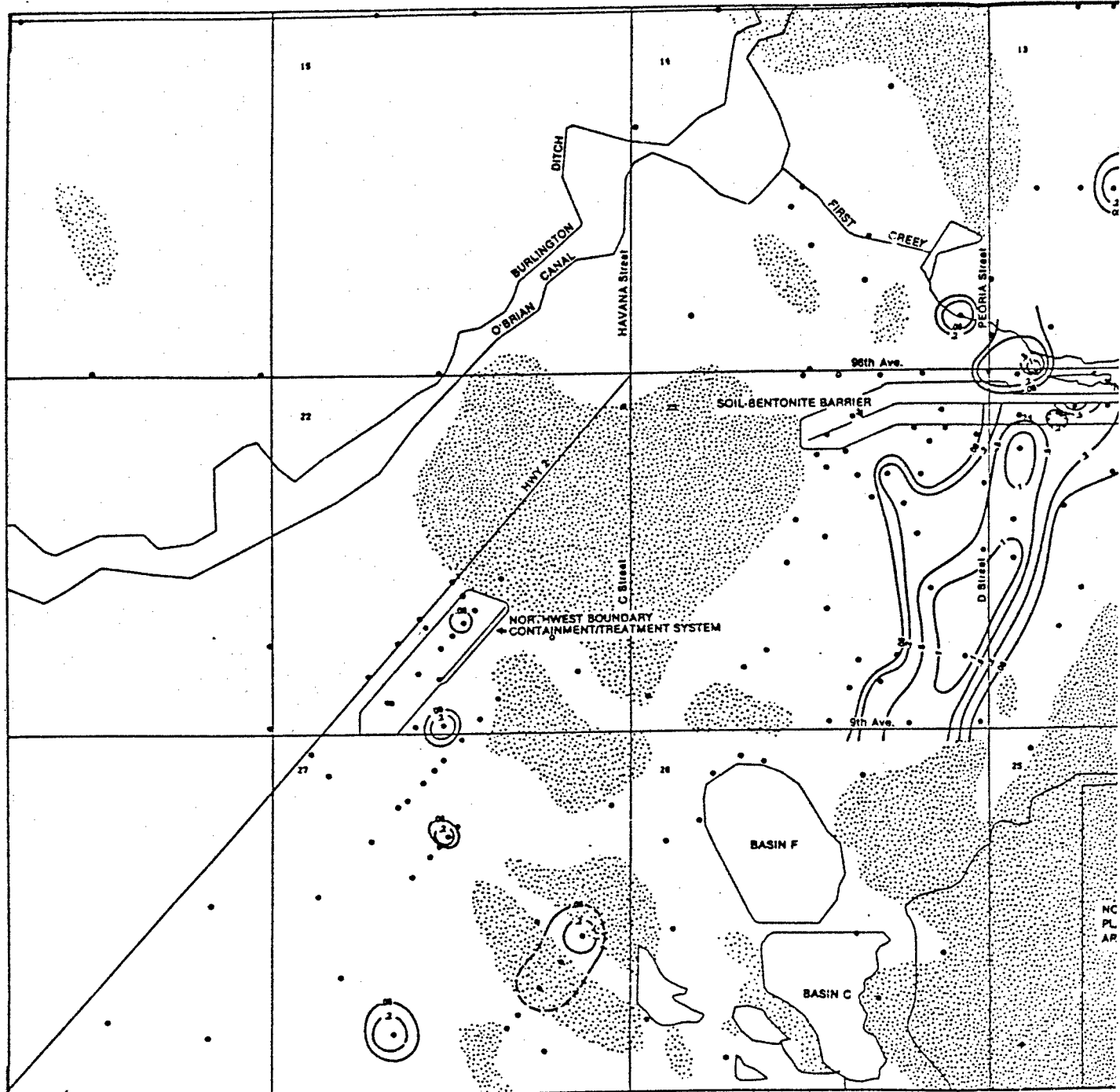
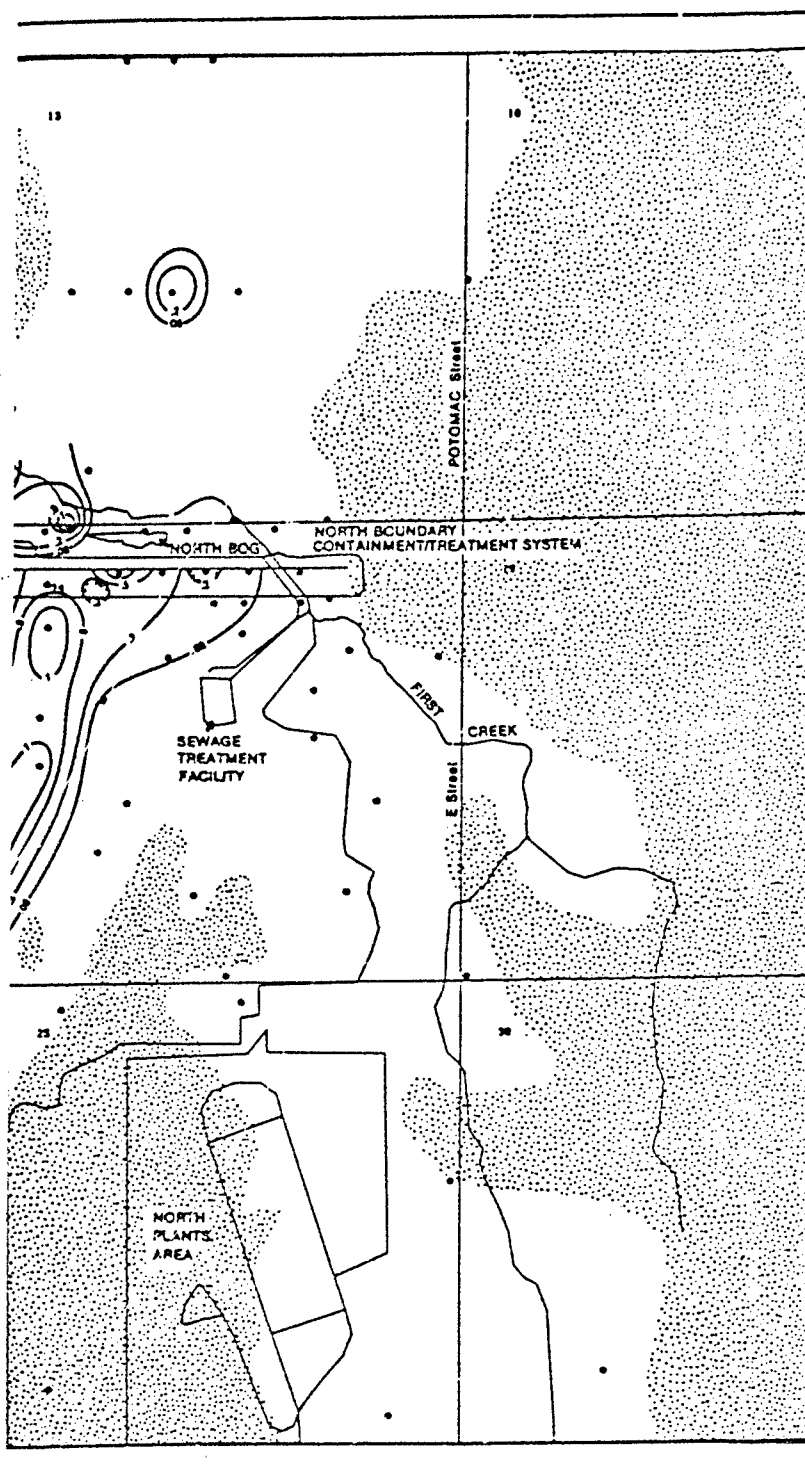


Figure B-72C
 ENDRIN CONCENTRATION DISTRIBUTION, ug/l,
 3RD QUARTER, FY87, ALLUVIAL AQUIFER.

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

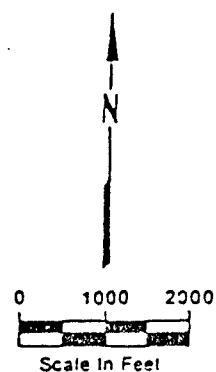
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- - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
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○ UNSATURATED ALLUVIUM



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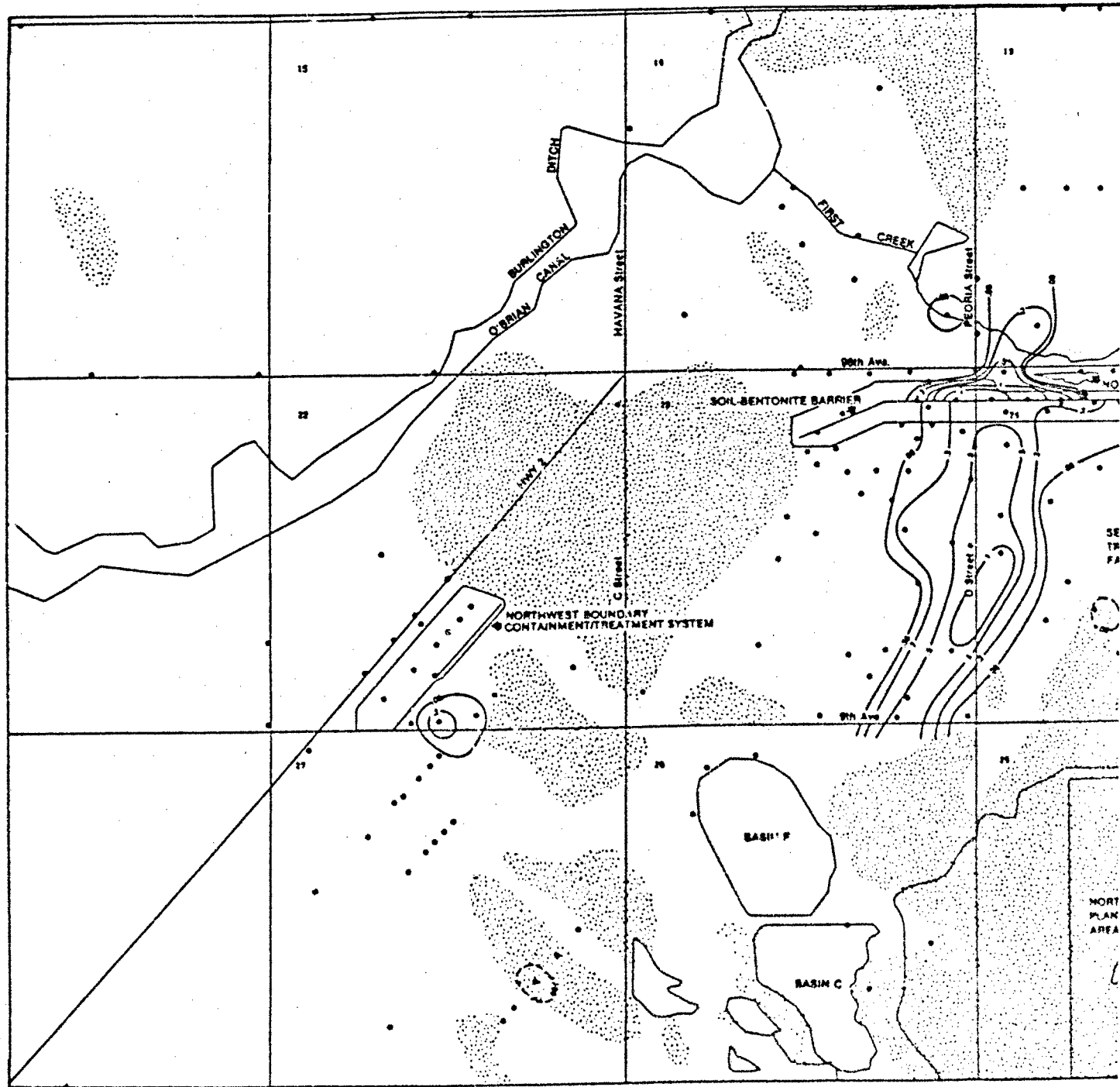
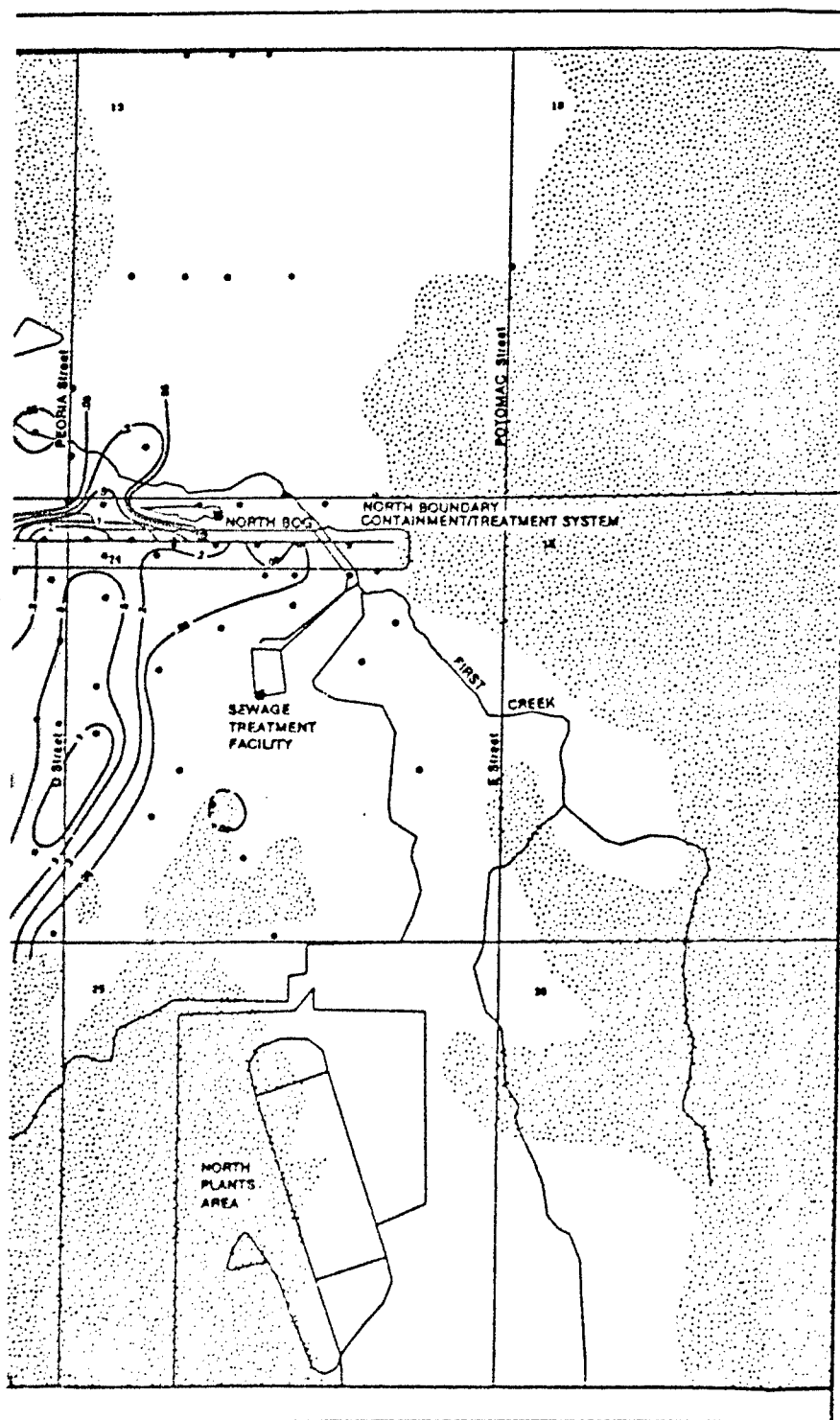


Figure B-72 D
 NDRIN CONCENTRATION DISTRIBUTION, ug/l,
 TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988



EXPLANATION

CONCENTRATIONS IN $\mu\text{g/l}$

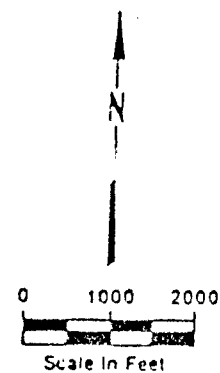
ISOCONCENTRATION LINE

ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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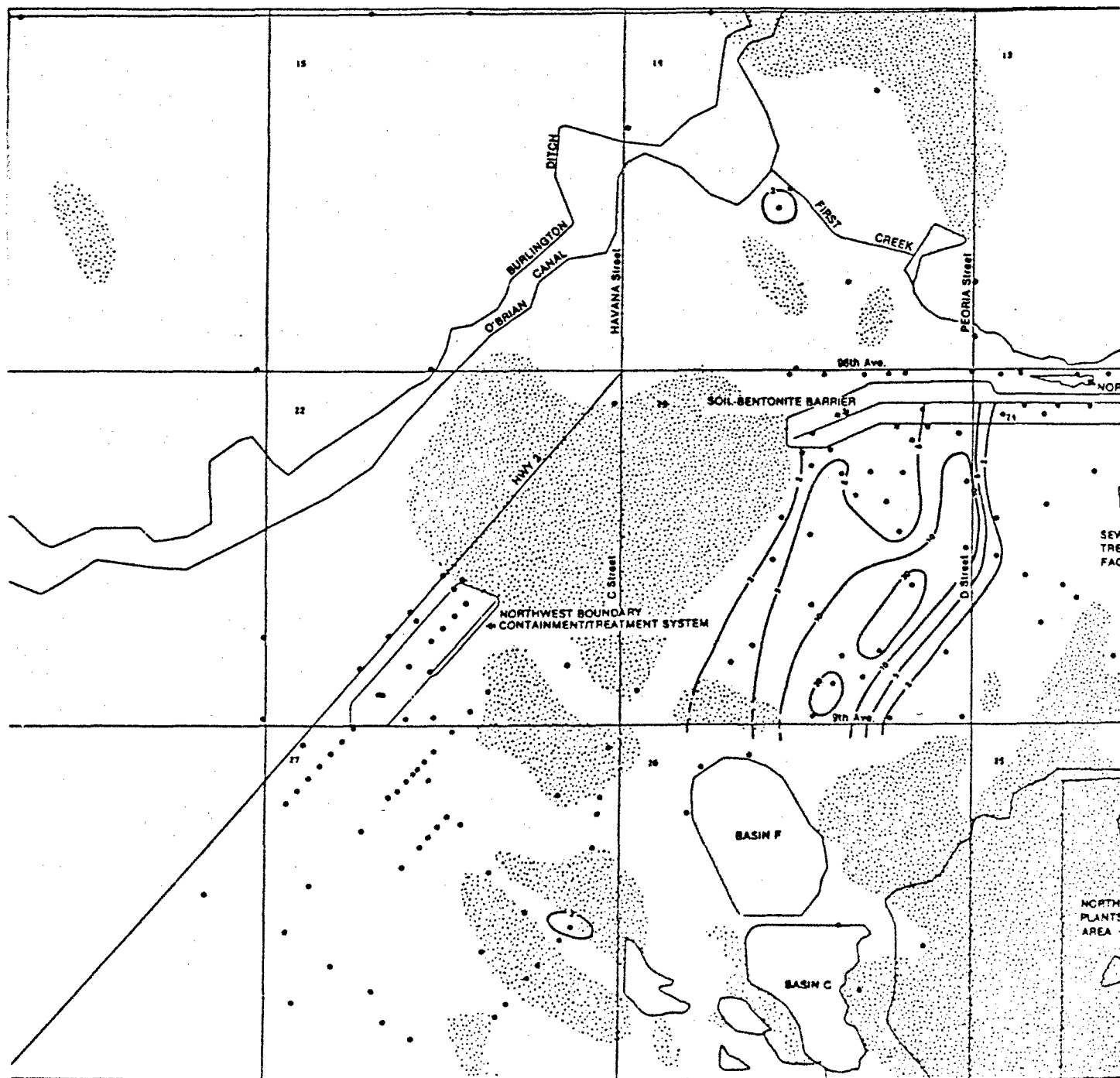
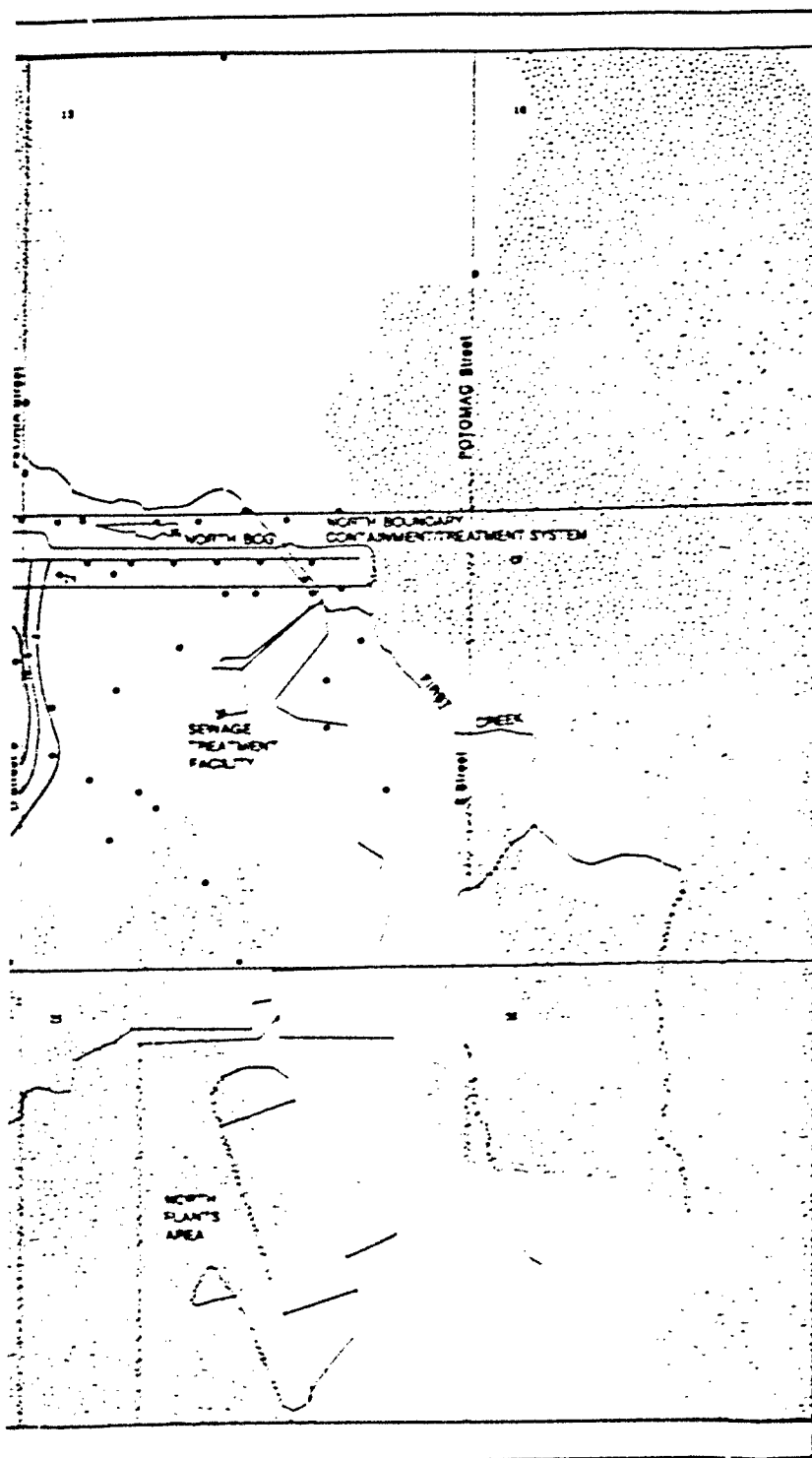


Figure B-73A
 OXATHIANE CONCENTRATION DISTRIBUTION, ug/l
 1st QUARTER, FY87, ALLUVIAL AQUIFER

RCCE ESE, 1988



EXPLANATION

CONCENTRATIONS IN $\mu\text{g/l}$

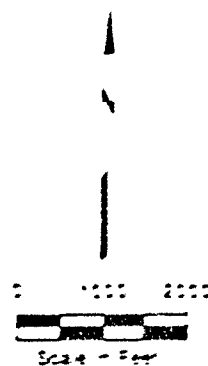
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INFERRED

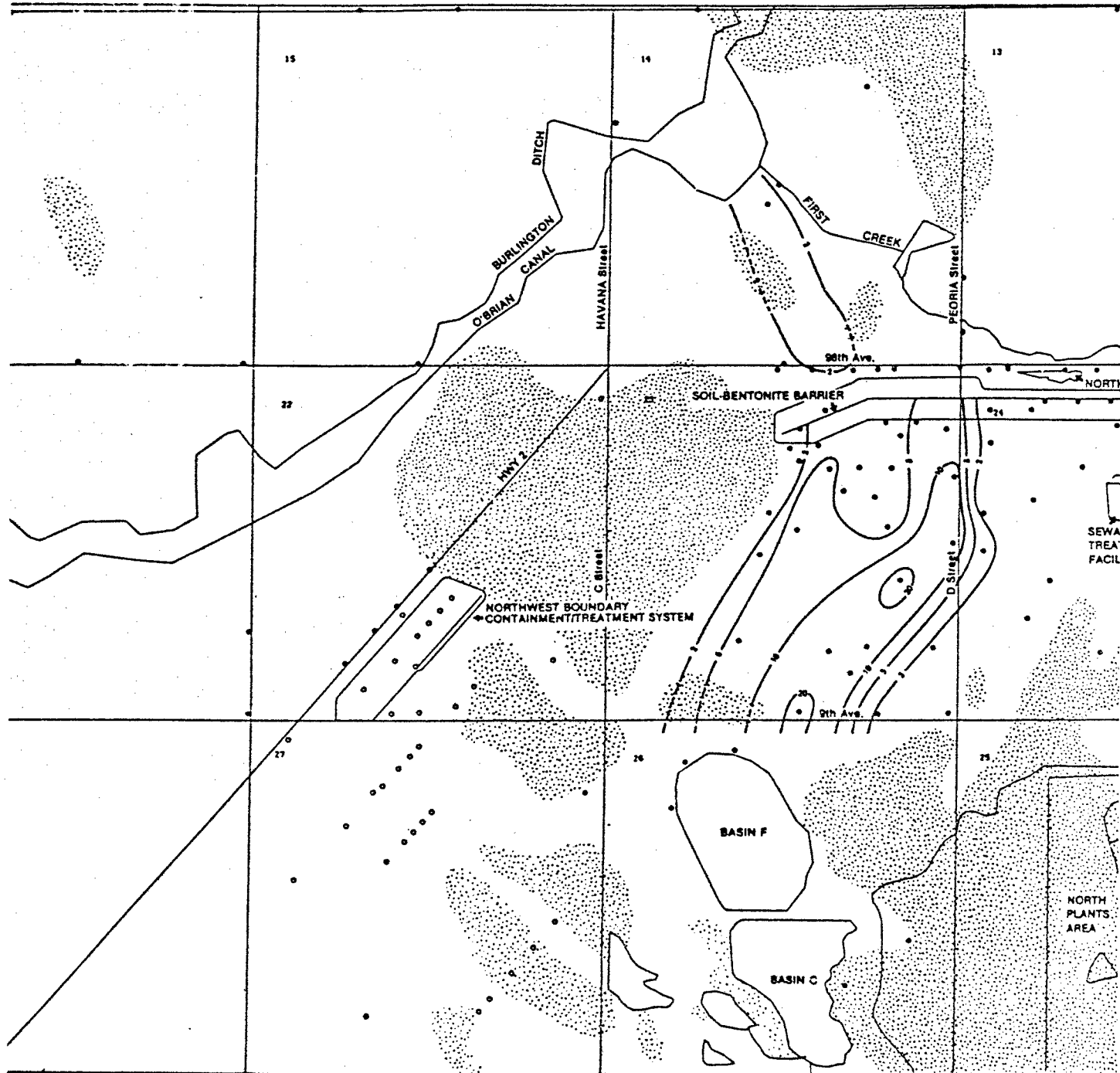
○ NETWORK MONITORING WELL
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM

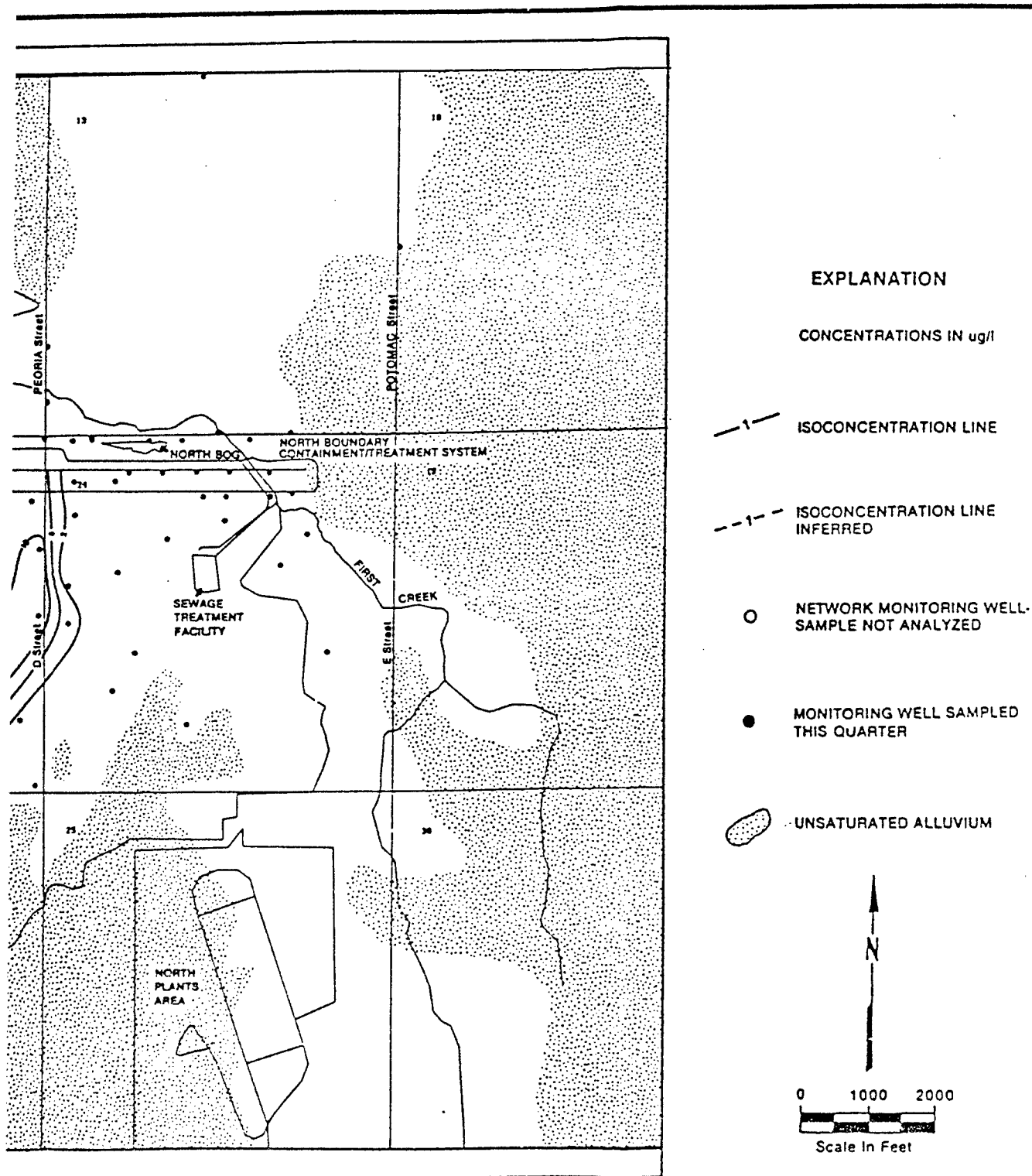


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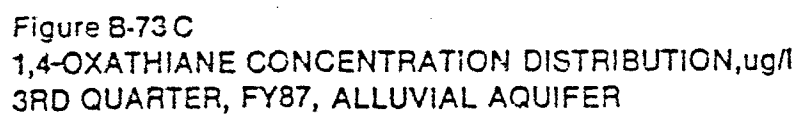
re B-73 B
 XATHIANE CONCENTRATION DISTRIBUTION, ug/l
 QUARTER, FY87, ALLUVIAL AQUIFER

CE:ESE, 1988

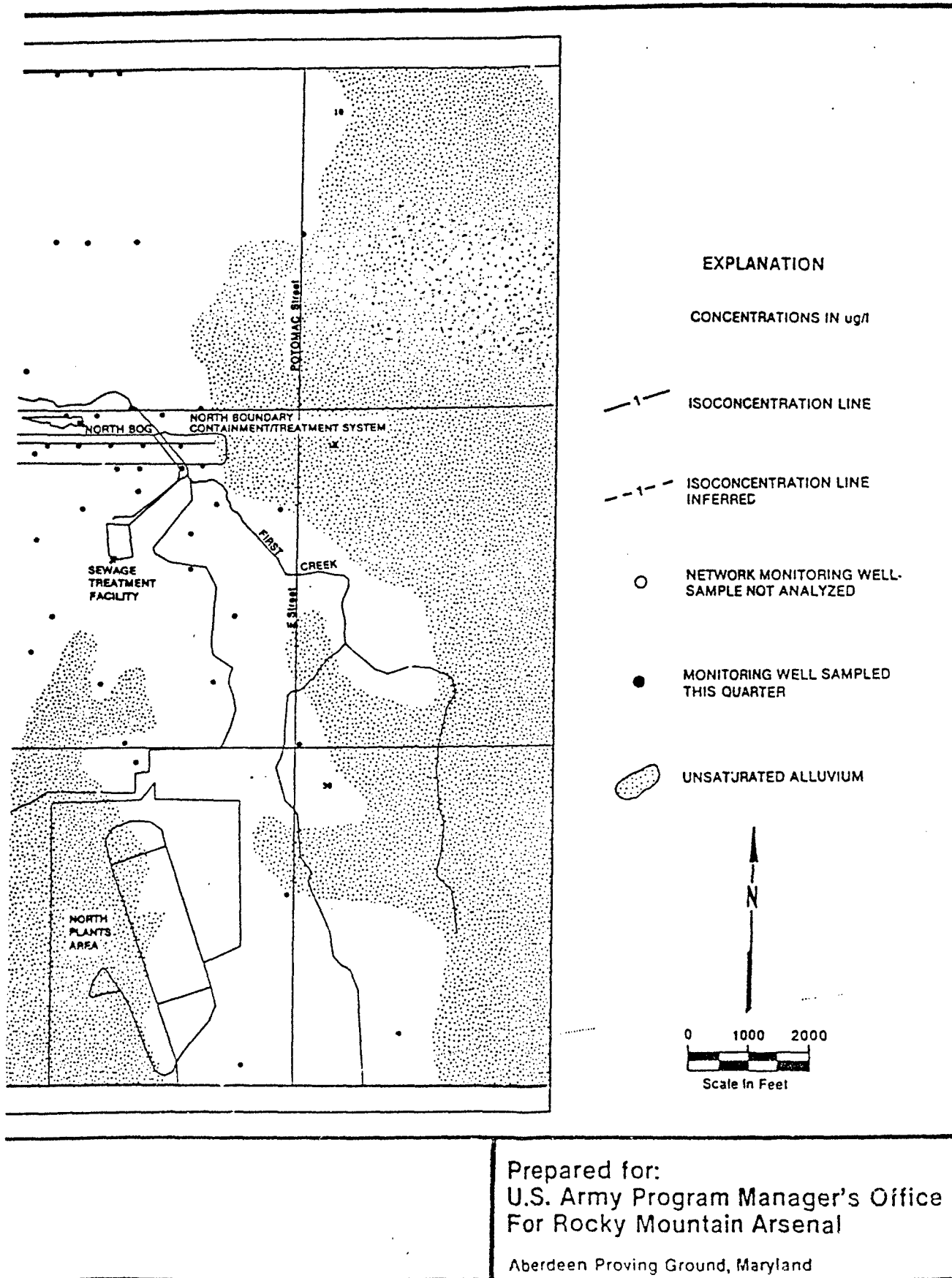


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SOURCE: ESE, 1988



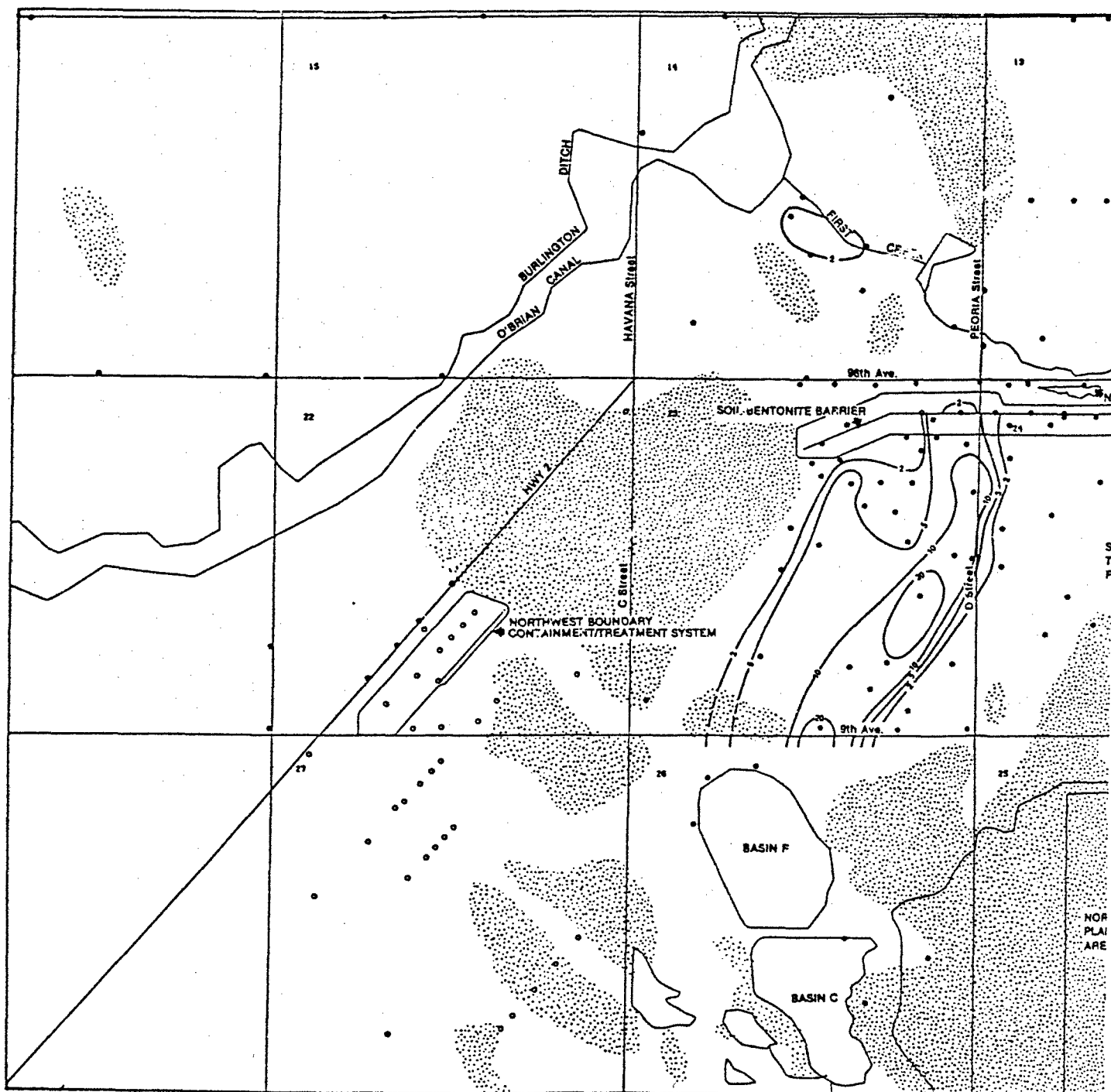
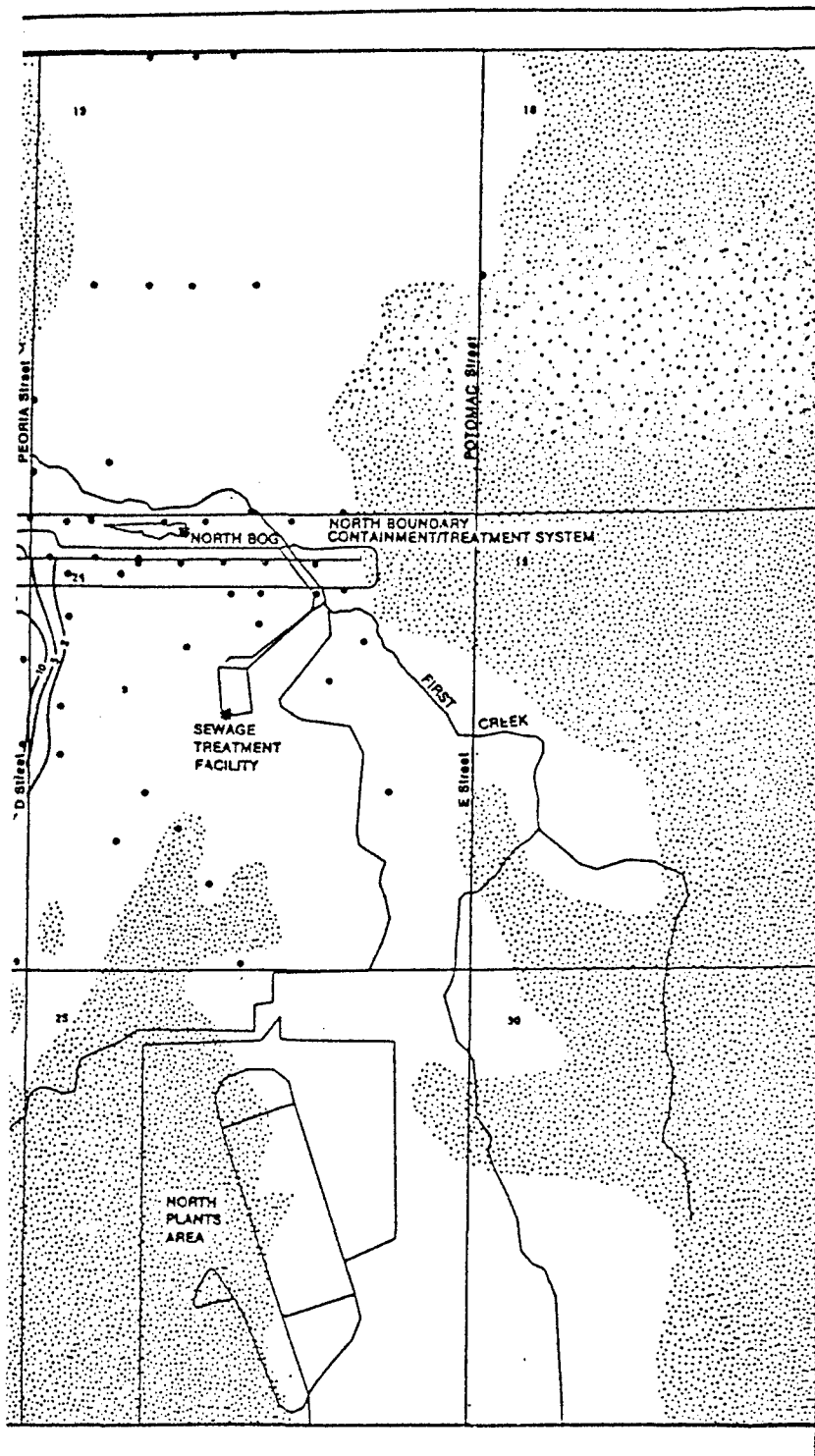


Figure B-73 D
 4-OXATHIANE CONCENTRATION DISTRIBUTION, ug/l
 TH QUARTER, FY87; ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

— 1 — ISOCONCENTRATION LINE

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INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



0 1000 2000
Scale In Feet

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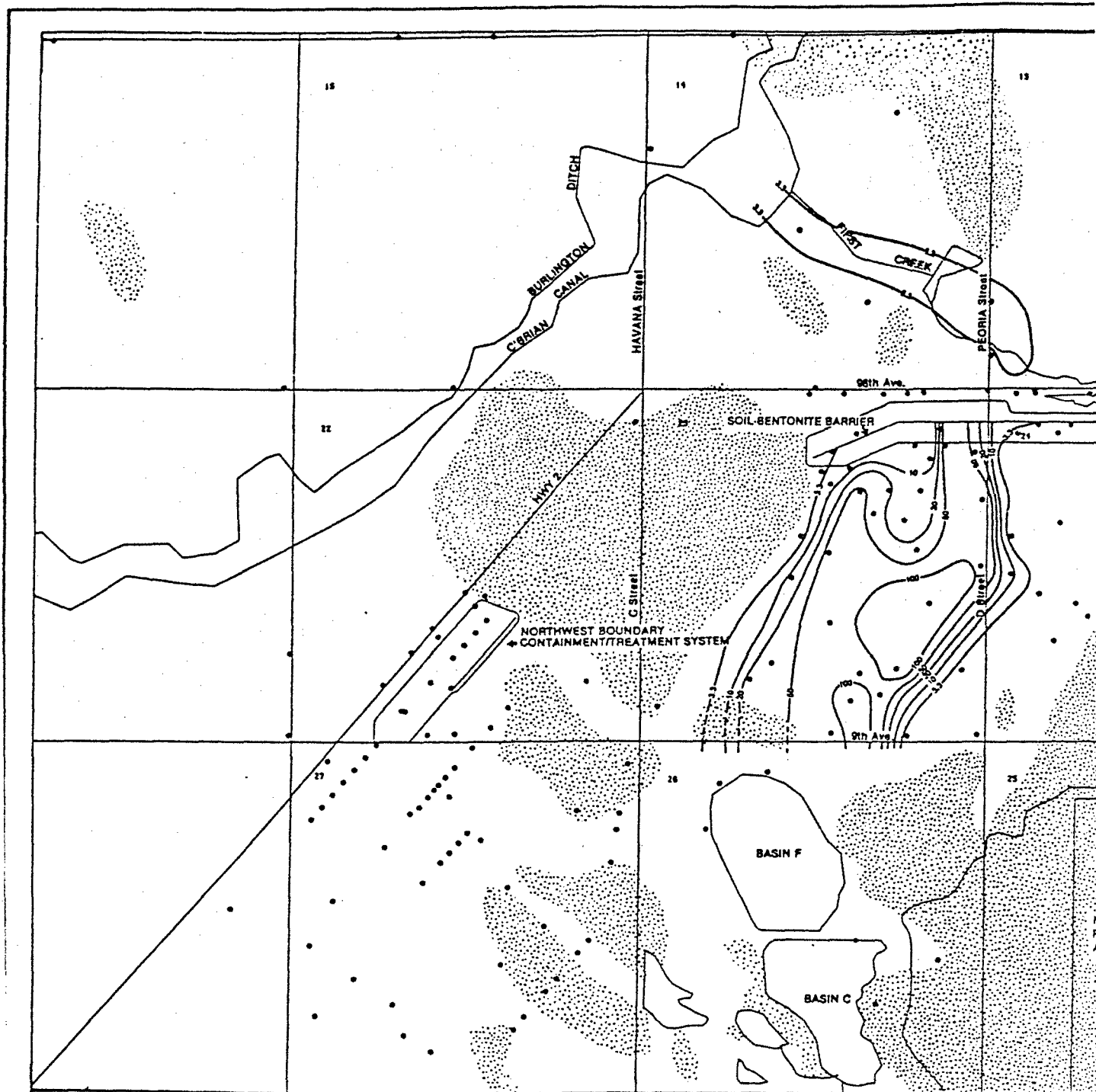
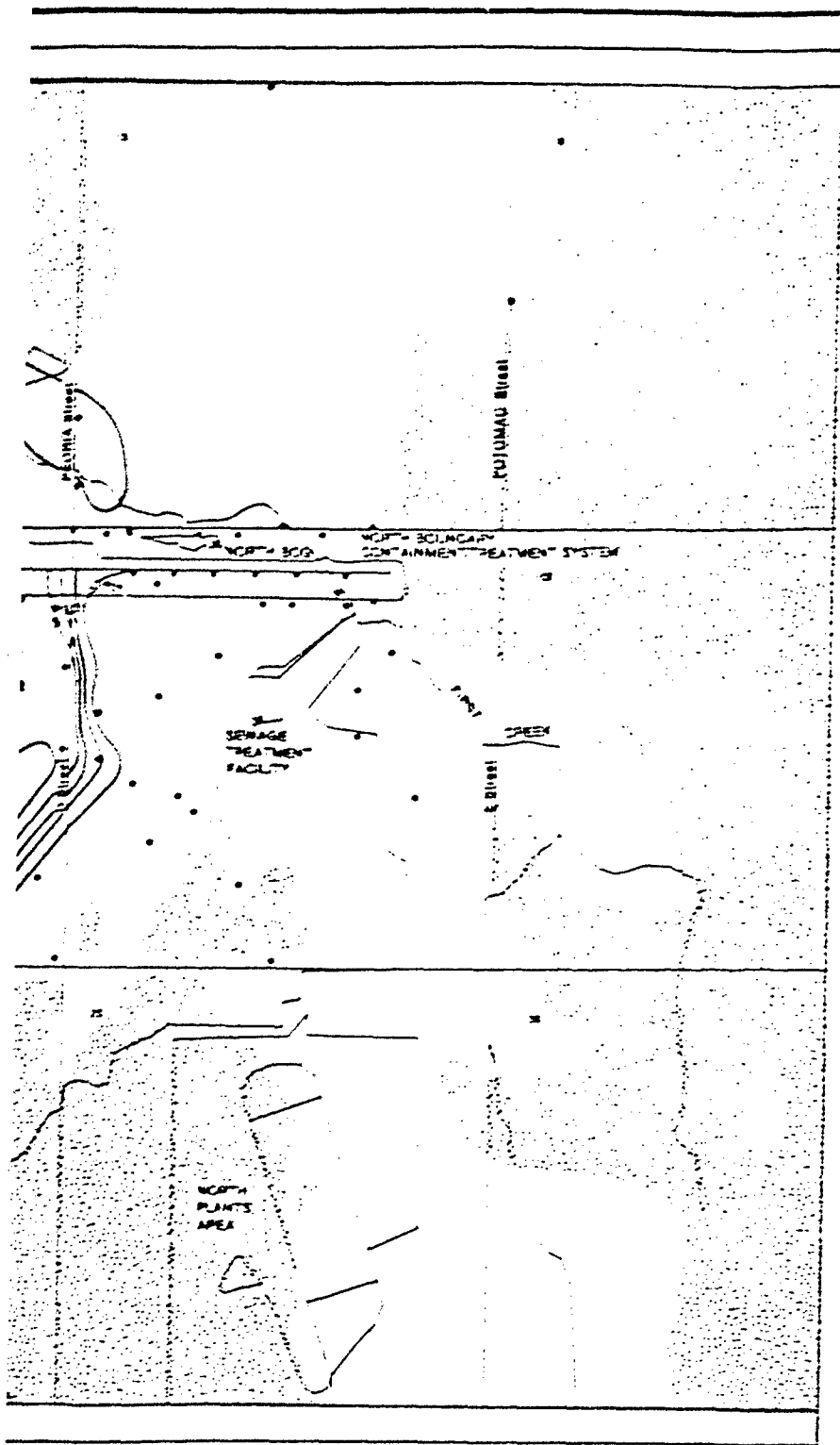


Figure B-74A
1,4-DITHIANE CONCENTRATION DISTRIBUTION, ug/l,
1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN LQI

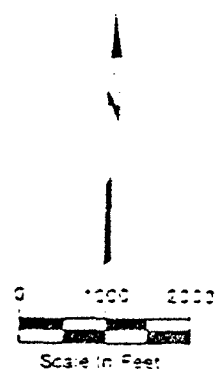
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INFERRED

○ NETWORK MONITORING WELL
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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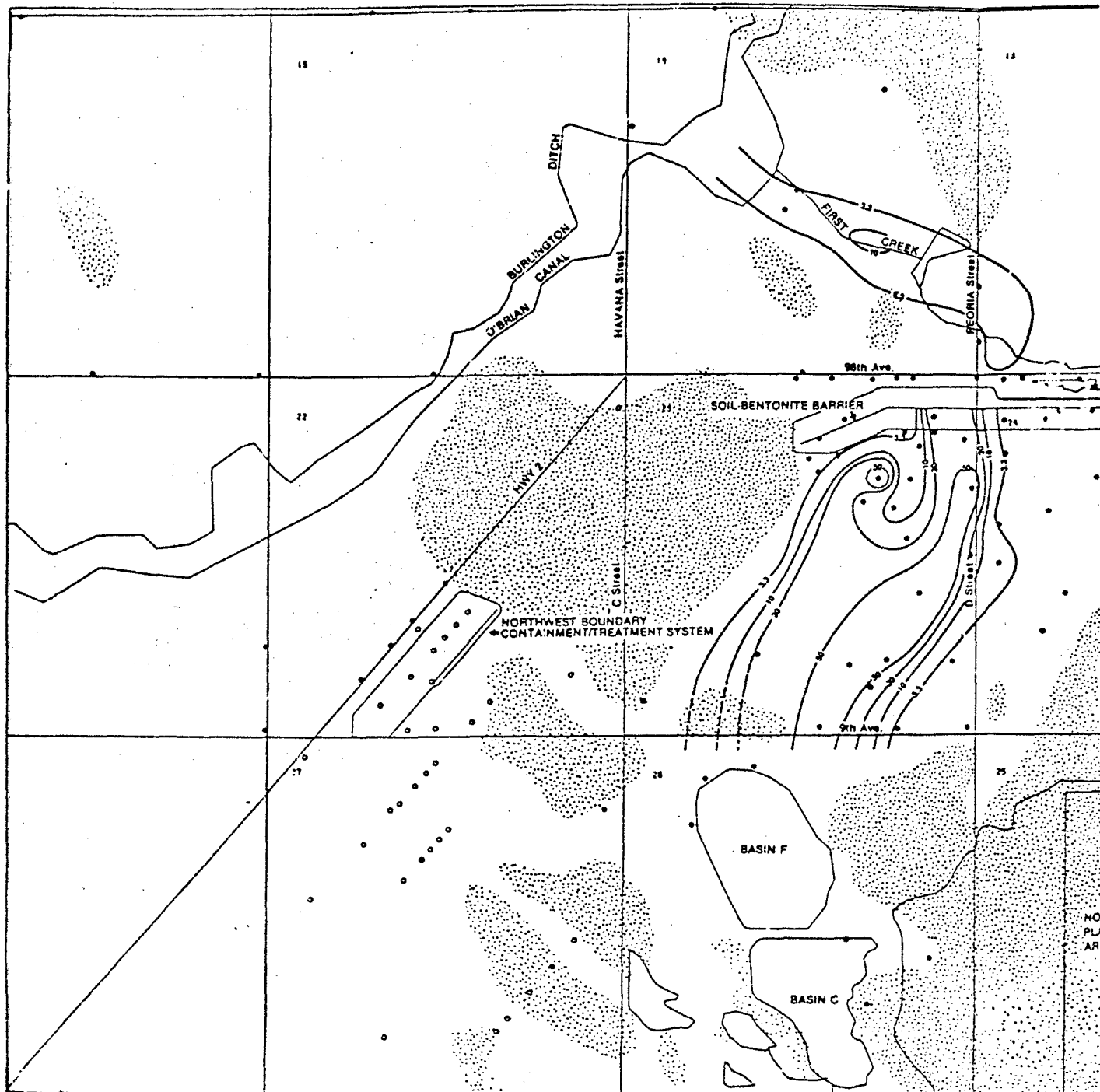
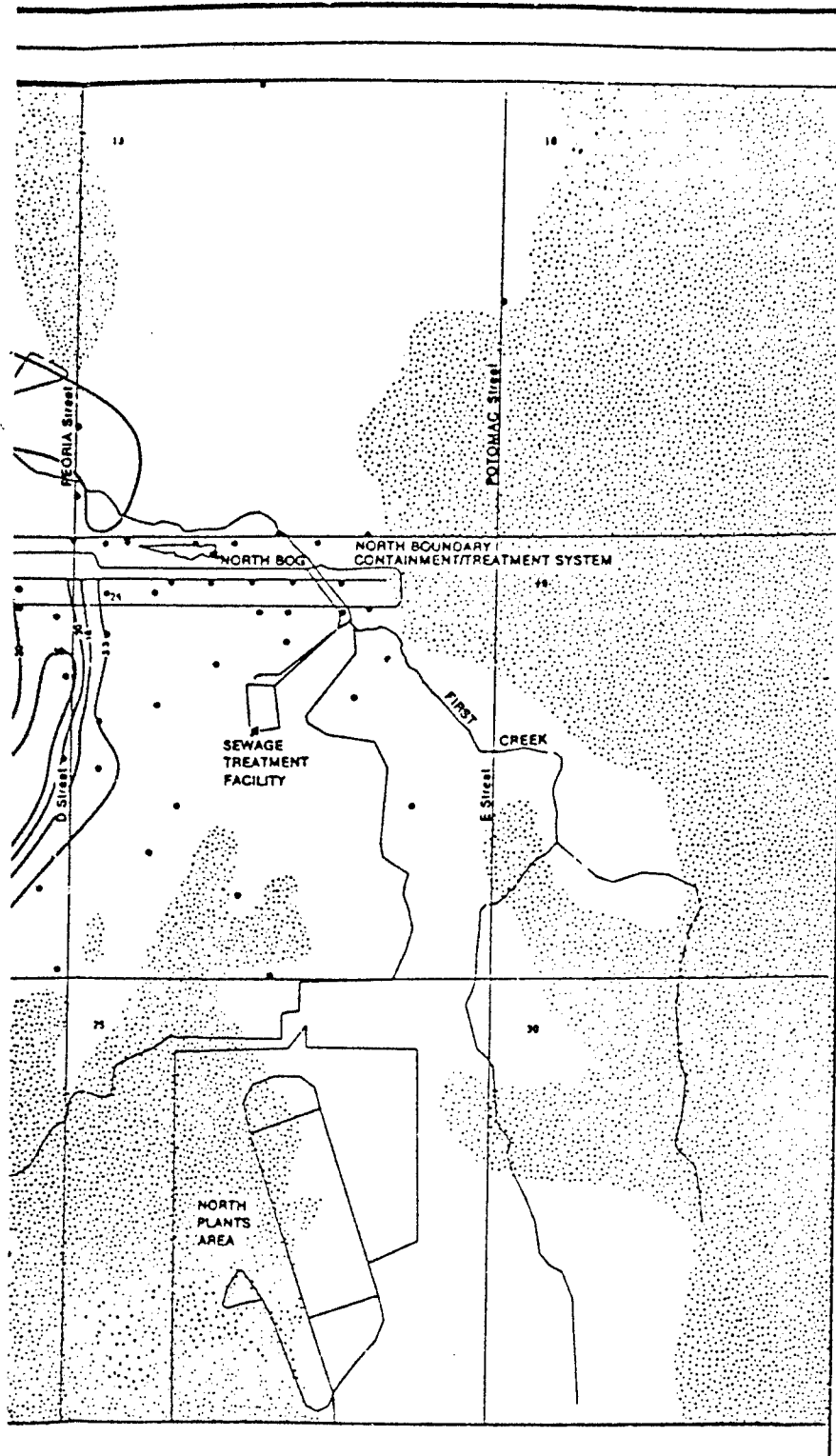


Figure B-74 B
 1,4-DITHIANE CONCENTRATION DISTRIBUTION, ug/l,
 2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

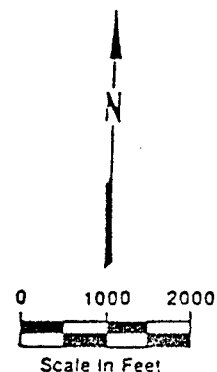
— ISOCONCENTRATION LINE

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○ NETWORK MONITORING WELL - SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED THIS QUARTER

○ UNSATURATED ALLUVIUM



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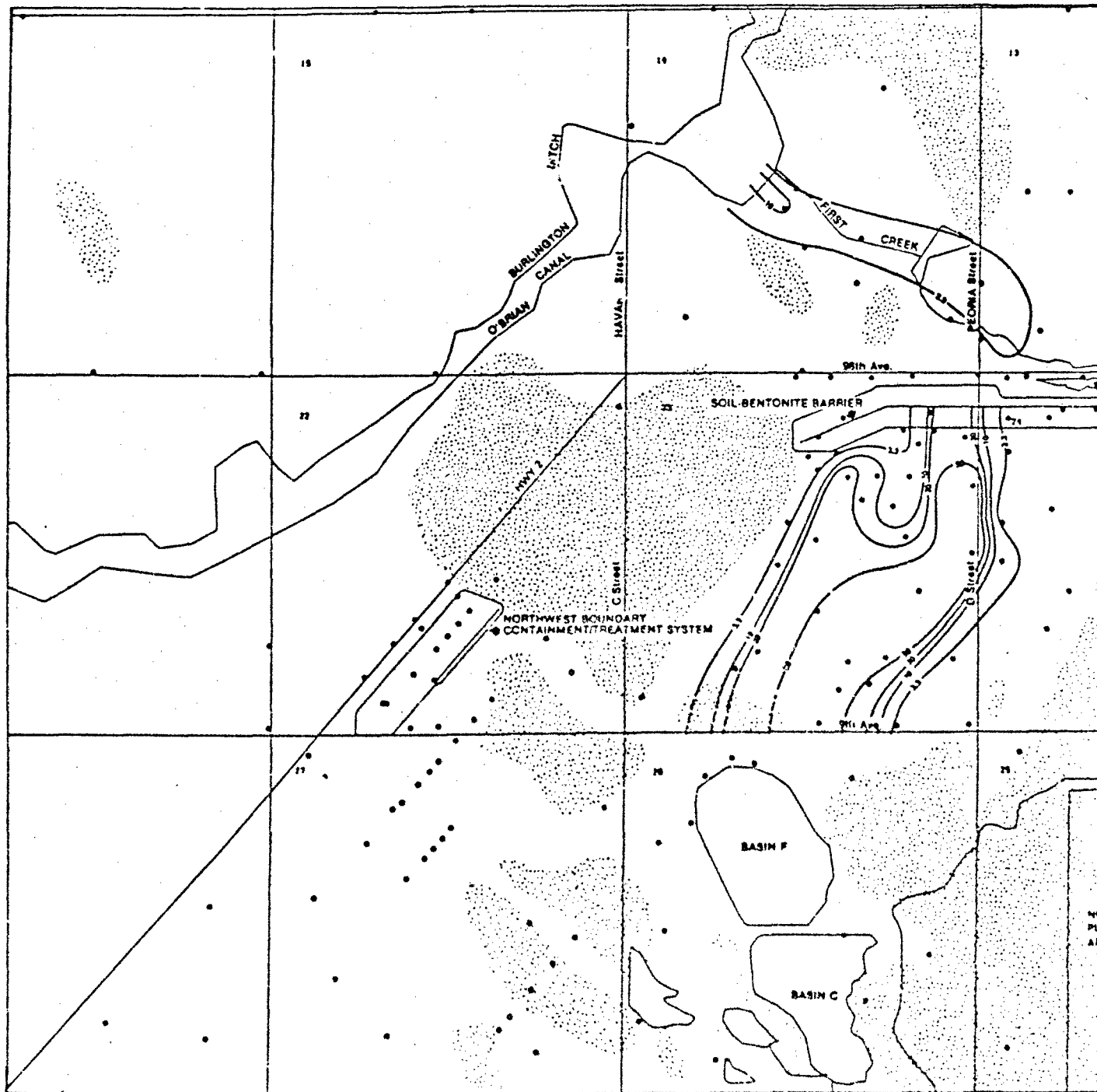
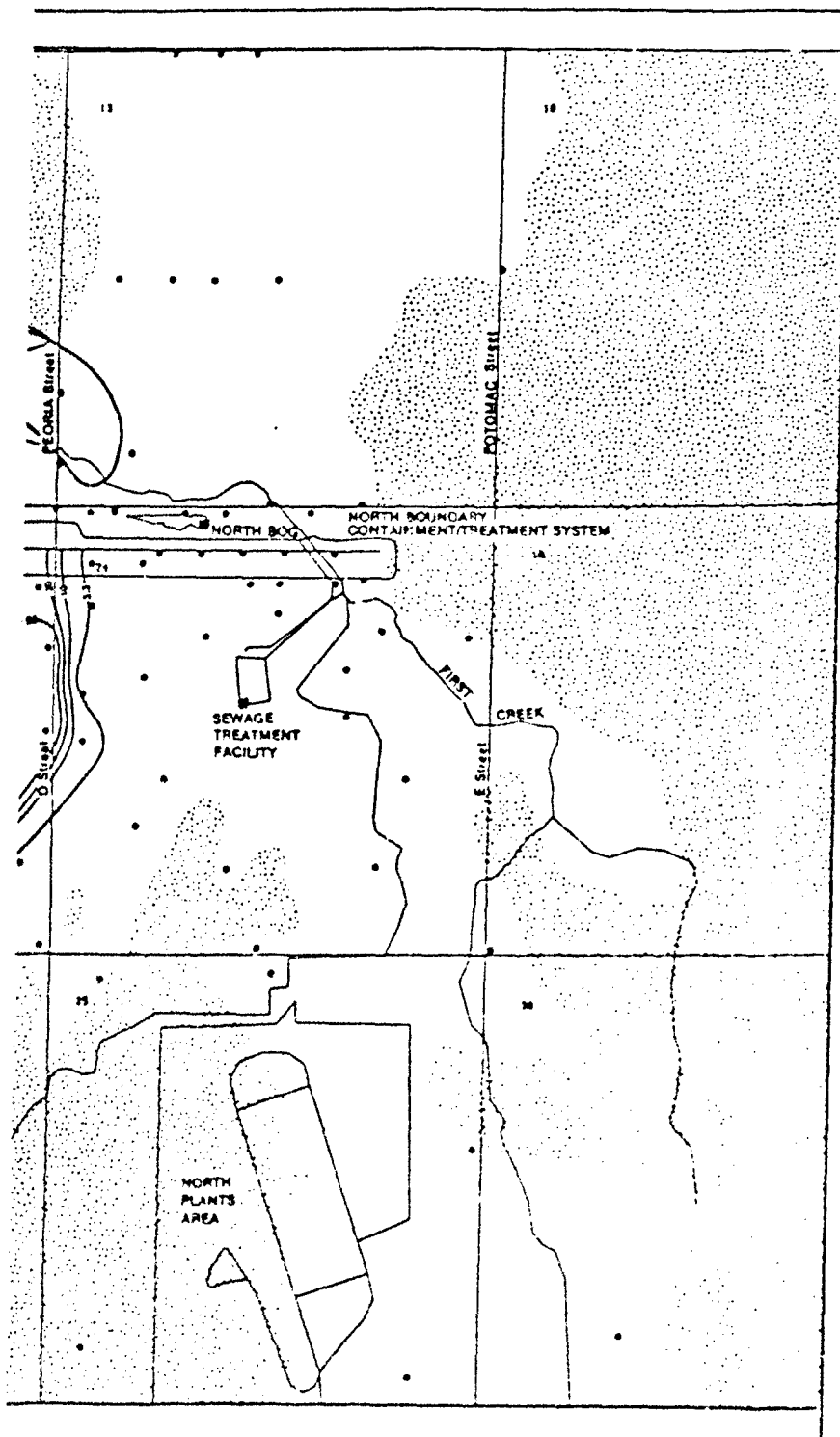


Figure B-74C
 I,4-DITHIANE CONCENTRATION DISTRIBUTION, ug/l,
 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

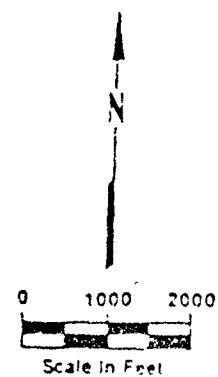
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SAMPLE NOT ANALYZED

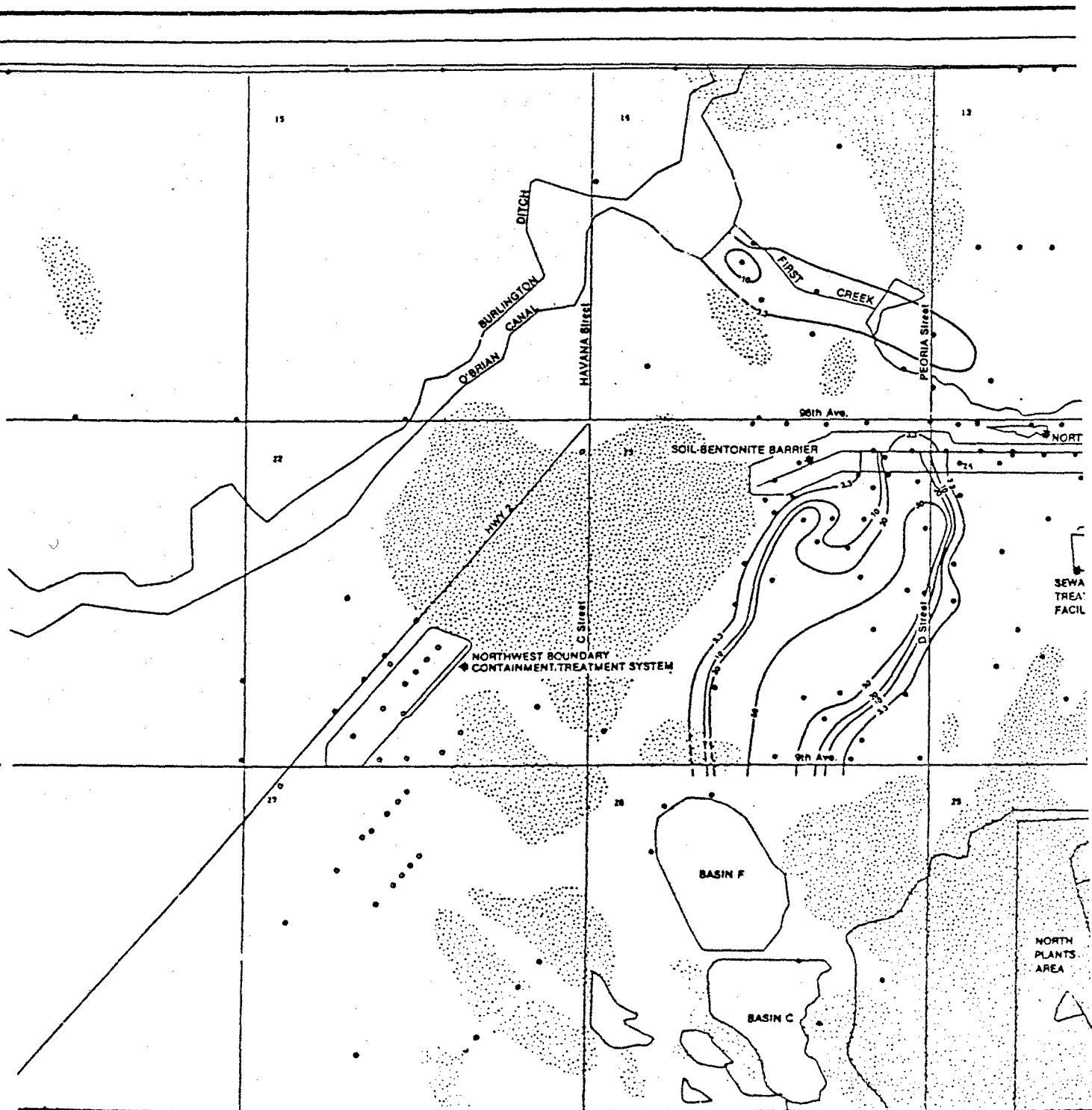
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THIS QUARTER

○ UNSATURATED ALLUVIUM



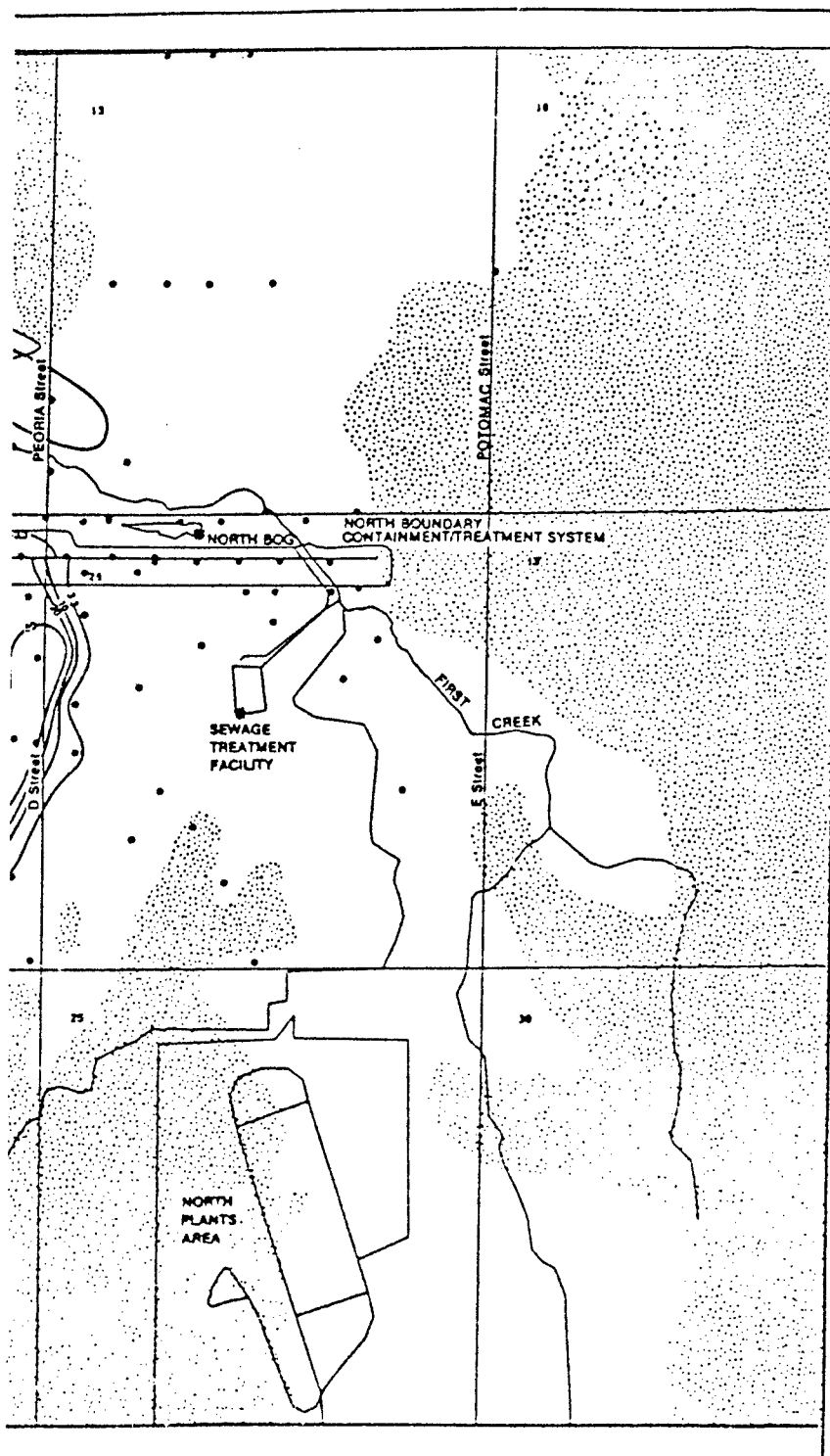
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e B-74 D
 THIAME CONCENTRATION DISTRIBUTION, ug/l,
 QUARTER, FY87, ALLUVIAL AQUIFER

E.ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

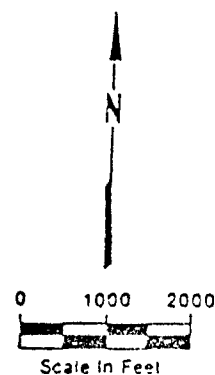
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- - - 1 - - - ISOCONCENTRATION LINE INFERRED

○ NETWORK MONITORING WELL -
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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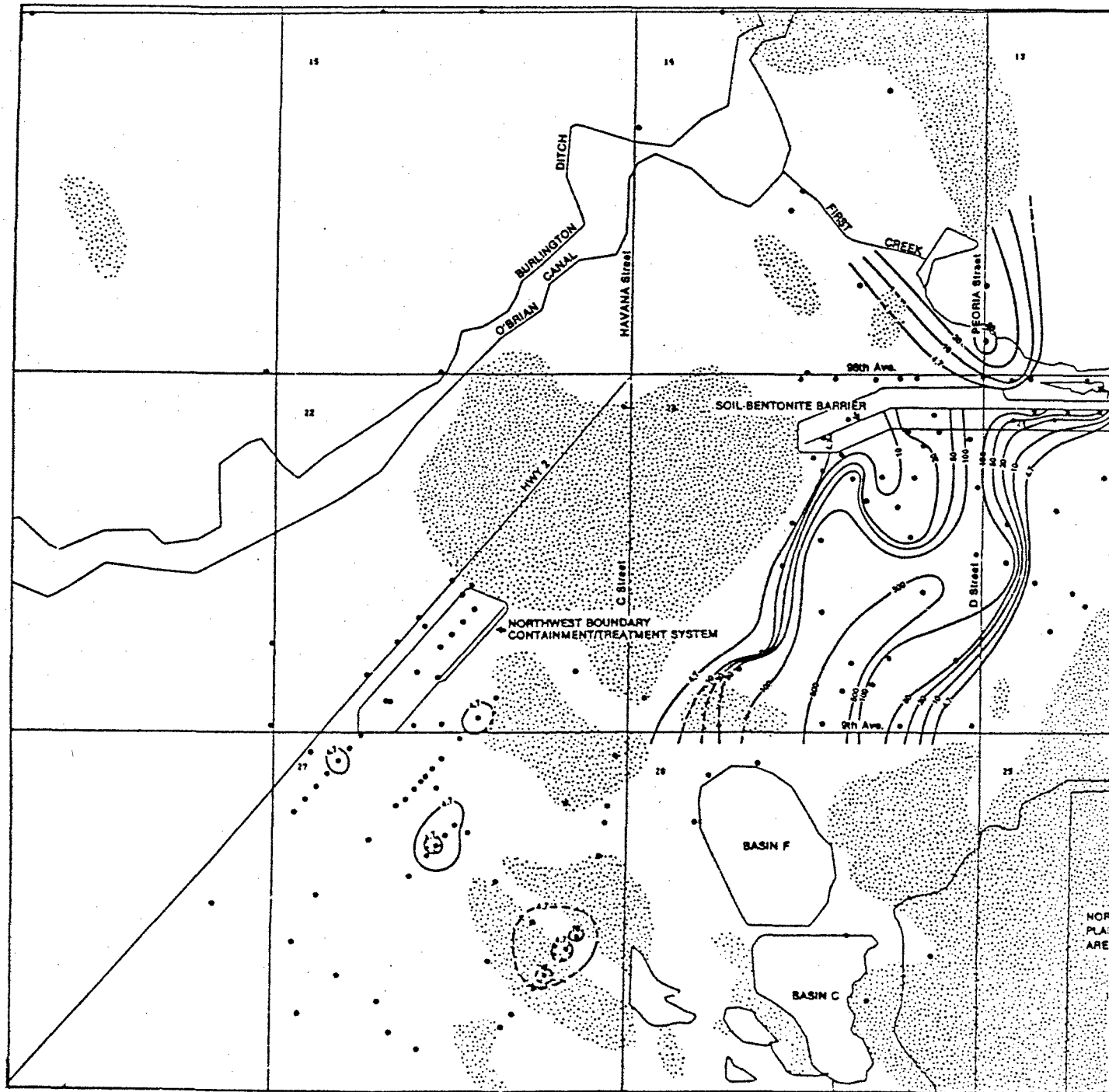
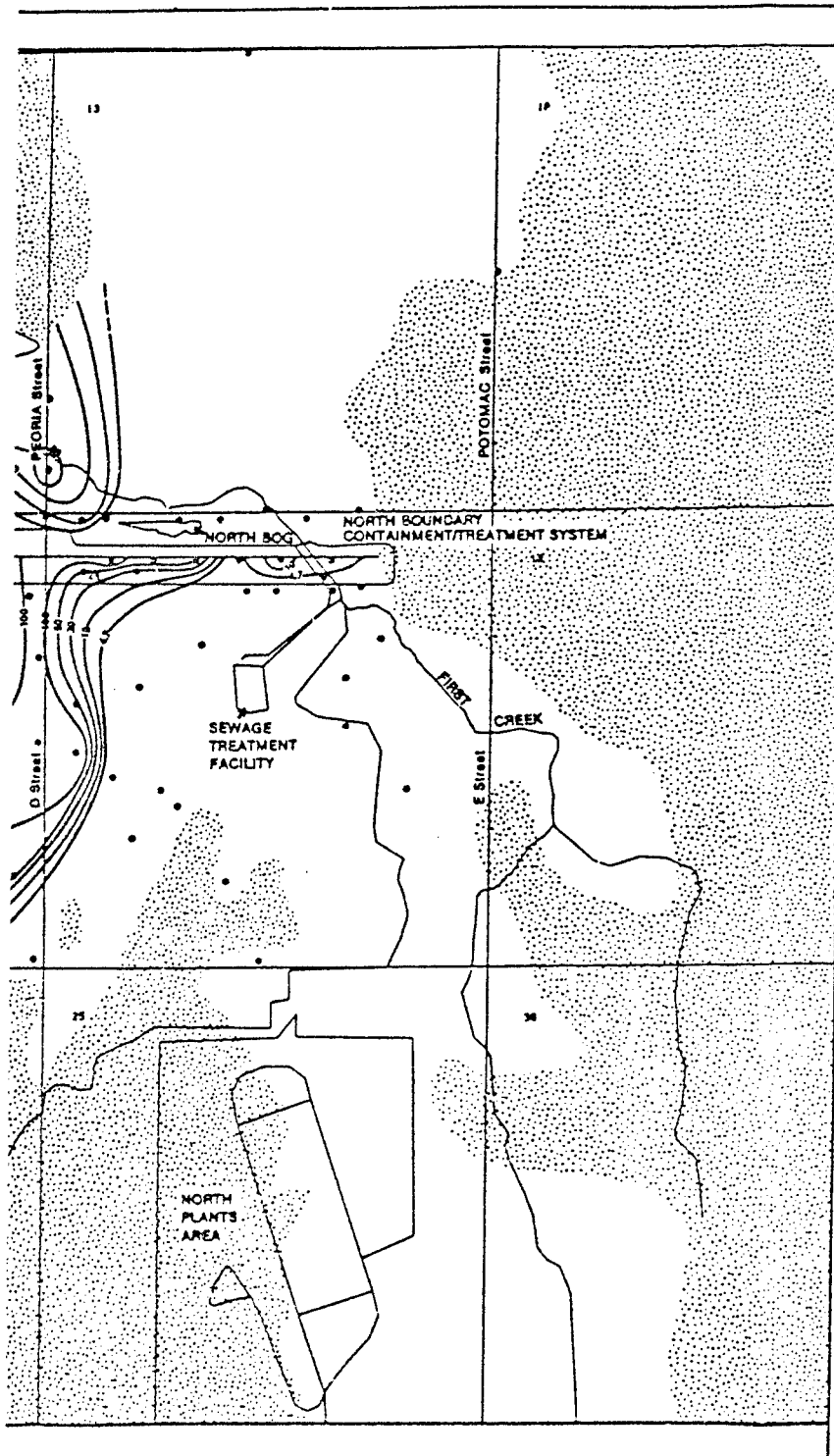


Figure B-75A
 COMBINED ORGANOSULFURS CONCENTRATION DISTRIBUTION, ug/l,
 ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

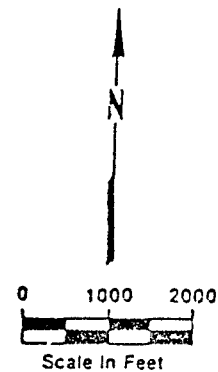
— 1 — ISOCONCENTRATION LINE

- - 1 - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

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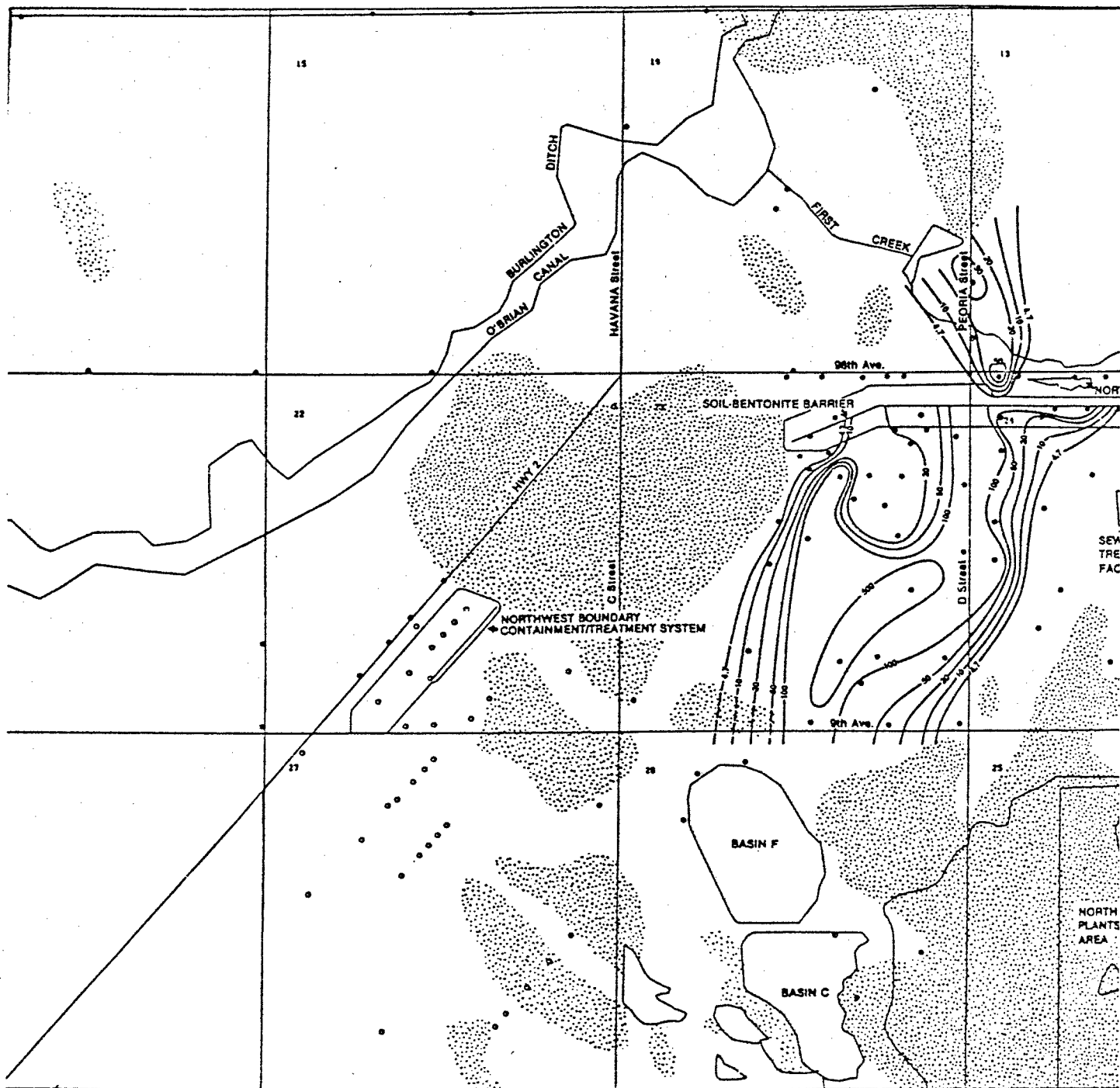
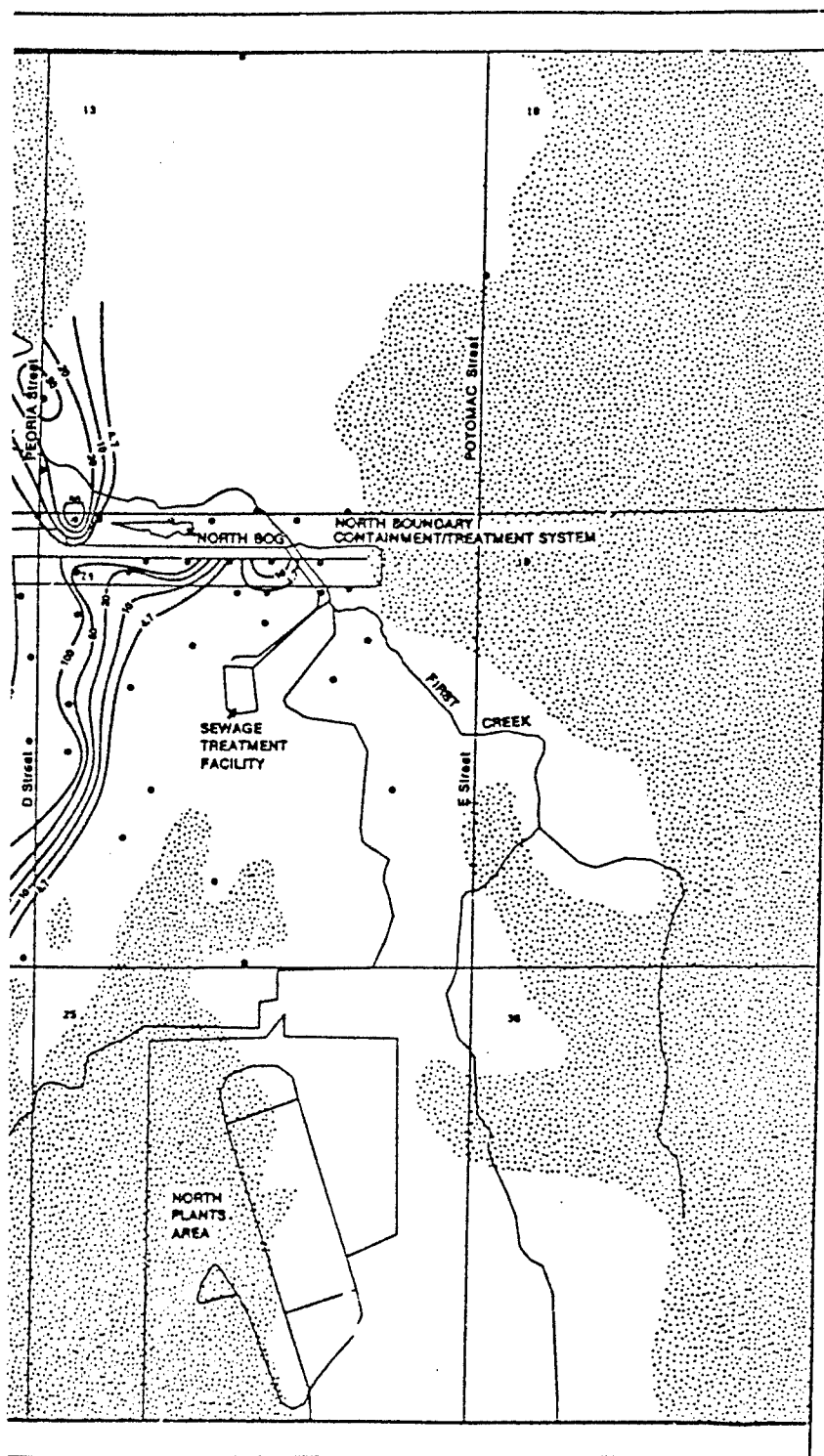


Figure B-75 B
 MBINED ORGANOSULFURS CONCENTRATION DISTRIBUTION, ug/l,
 D QUARTER, FY87, ALLUVIAL AQUIFER

RCE:ESE, 1988



EXPLANATION

CONCENTRATIONS IN $\mu\text{g/l}$

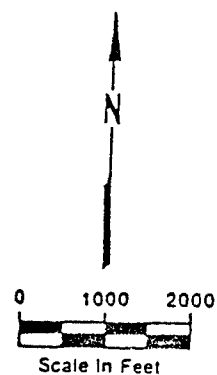
— ISOCONCENTRATION LINE

- - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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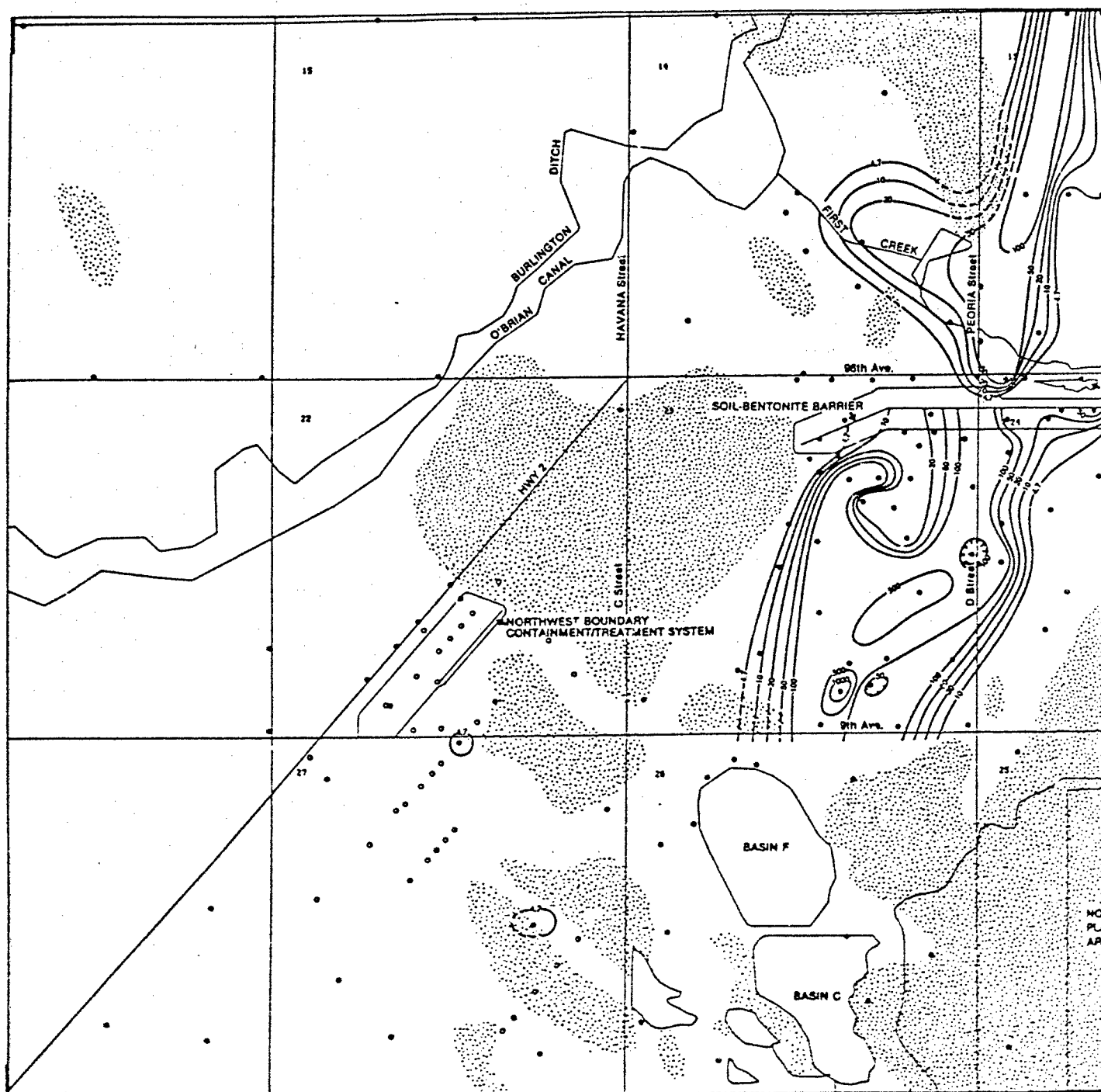
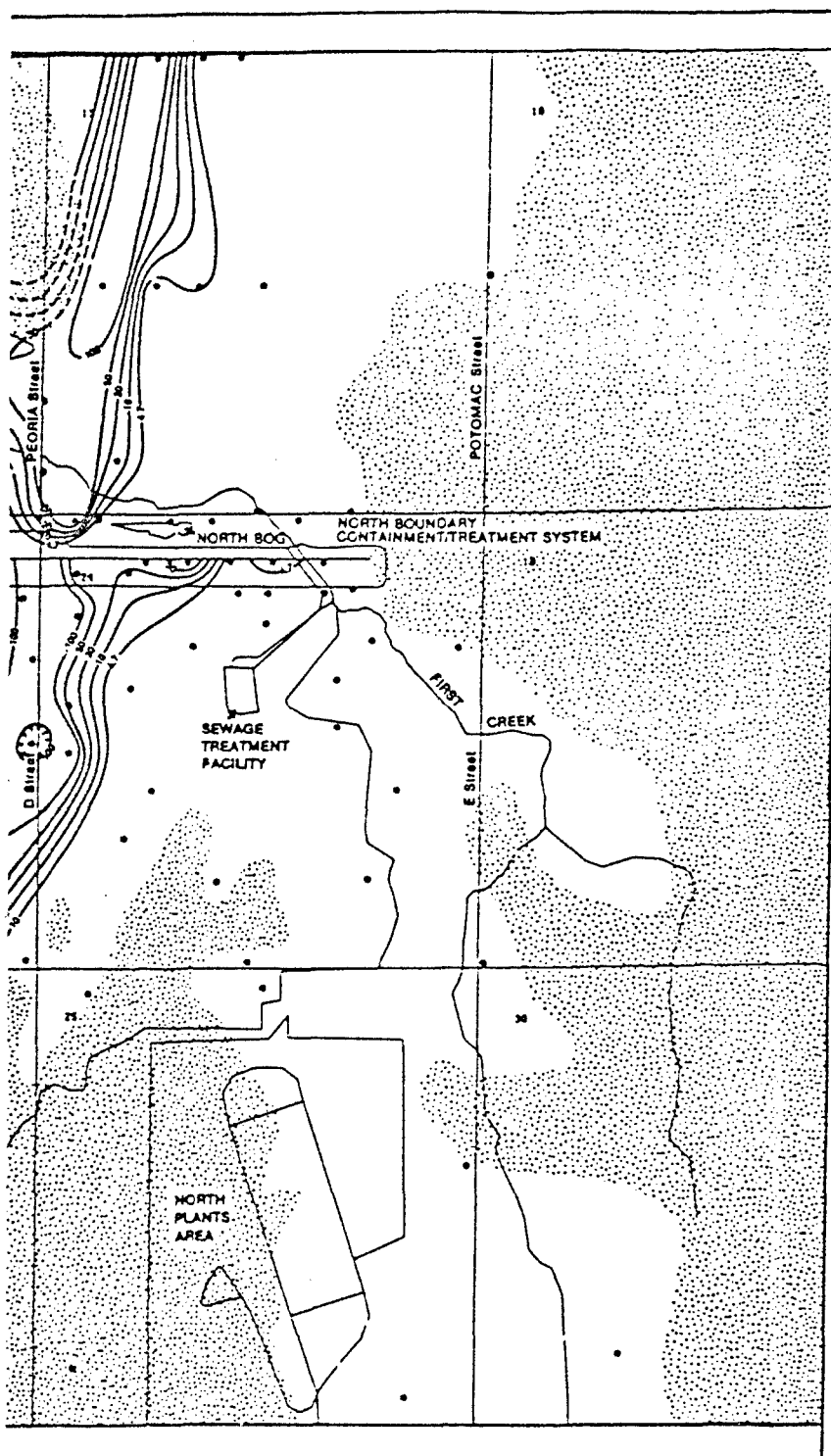


Figure B-75C
COMBINED ORGANOSULFURS CONCENTRATION DISTRIBUTION, ug/l,
3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE ESE, 1983



EXPLANATION

CONCENTRATIONS IN ug/l

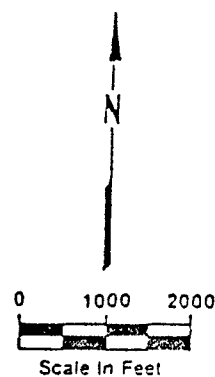
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- - - ISOCONCENTRATION LINE INFERRED

○ NETWORK MONITORING WELL - SAMPLE NOT ANALYZED

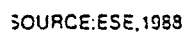
● MONITORING WELL SAMPLED THIS QUARTER

○ UNSATURATED ALLUVIUM



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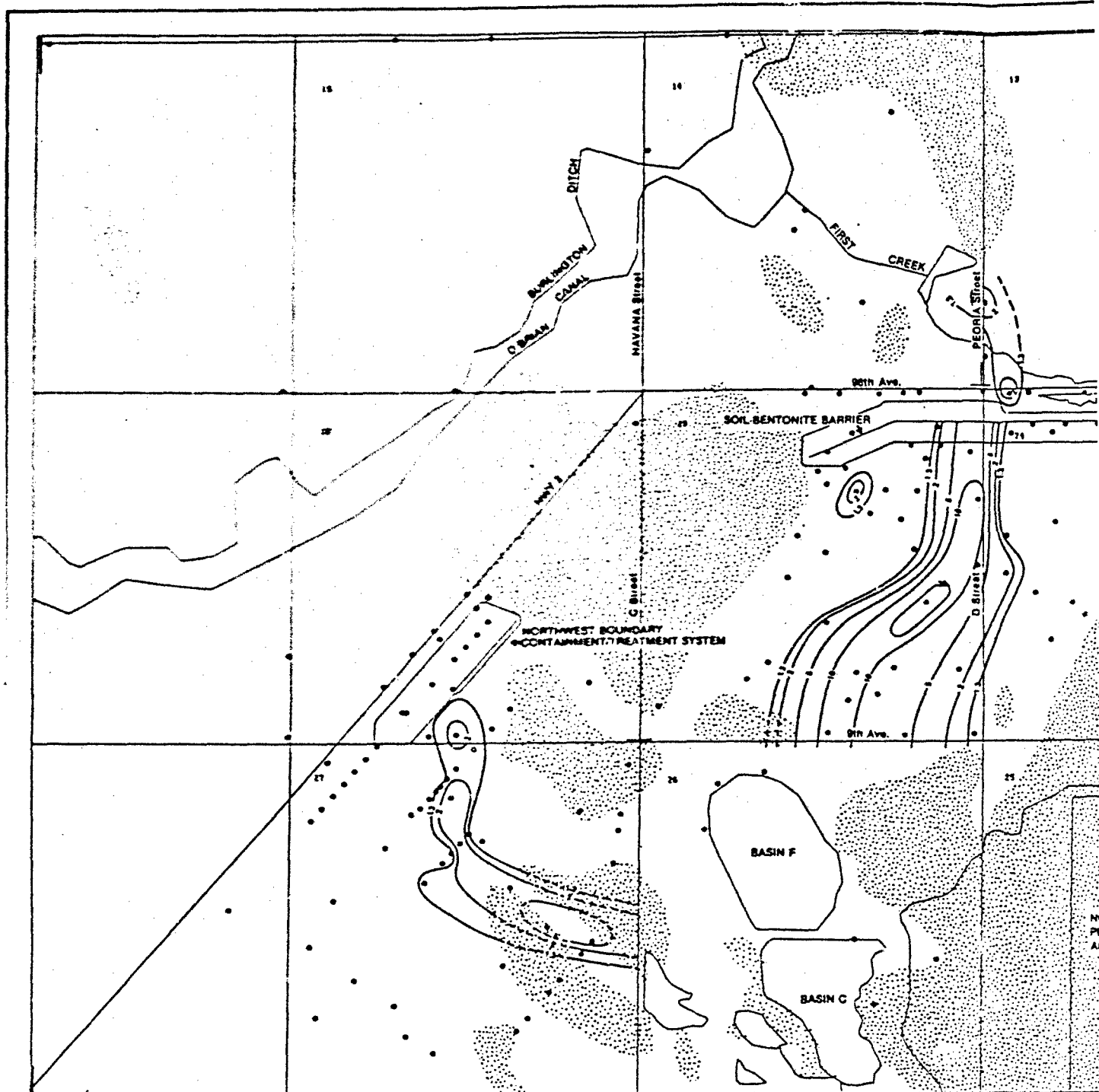
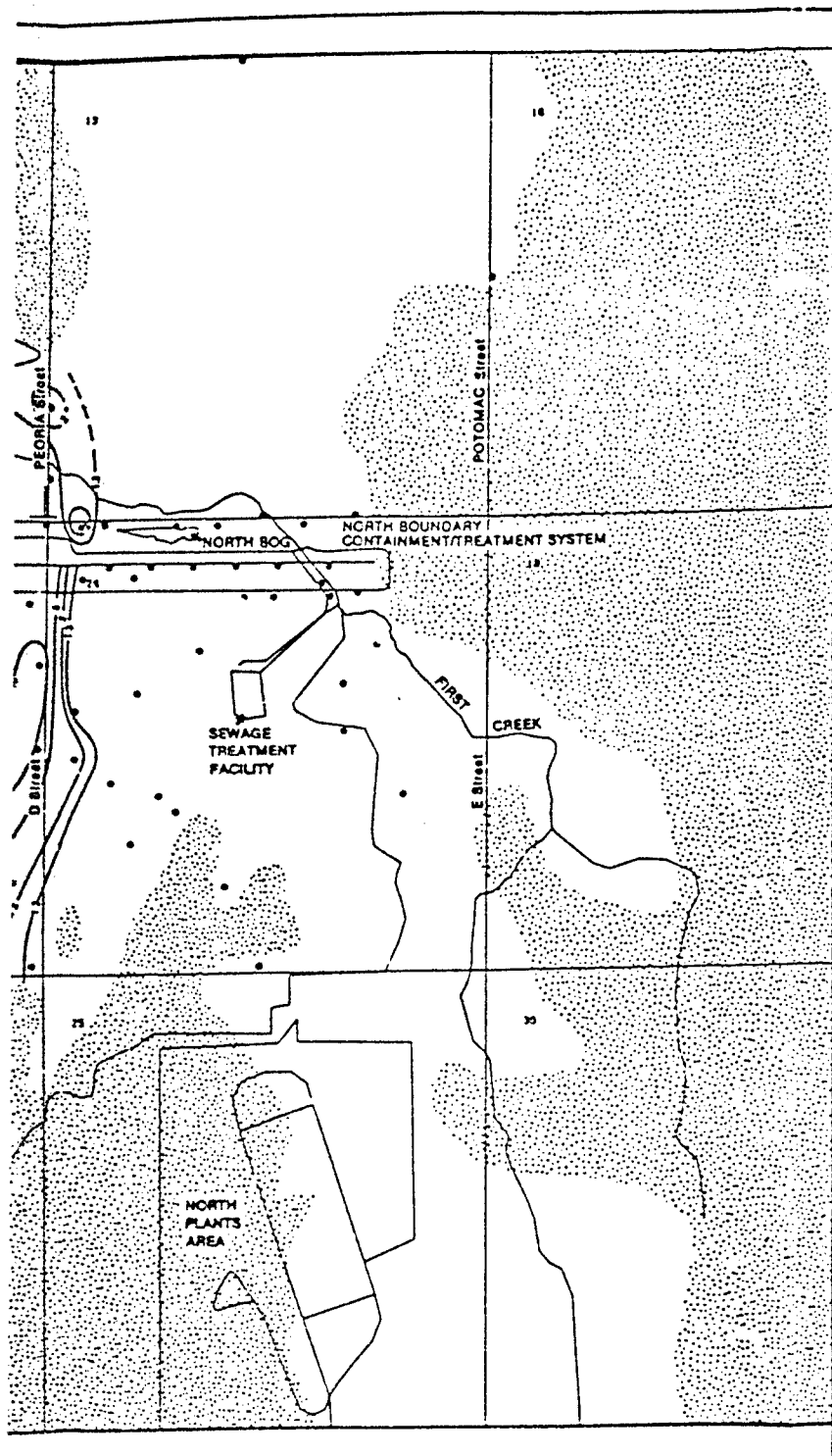


Figure B-76A
 TRICHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l,
 1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

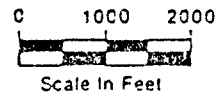
CONCENTRATIONS IN $\mu\text{g/l}$

— ISOCONCENTRATION LINE

- - - ISOCONCENTRATION LINE INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
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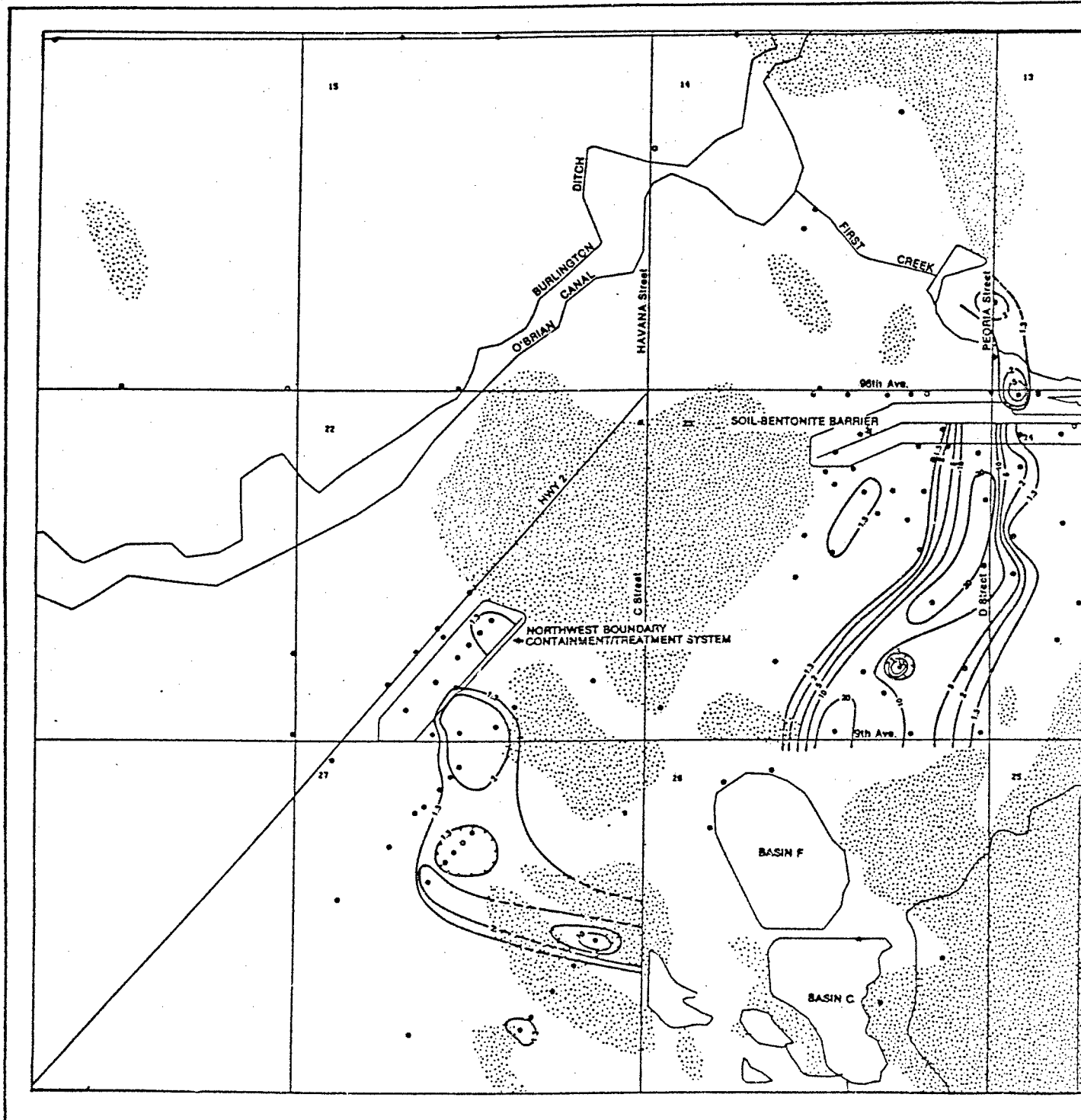
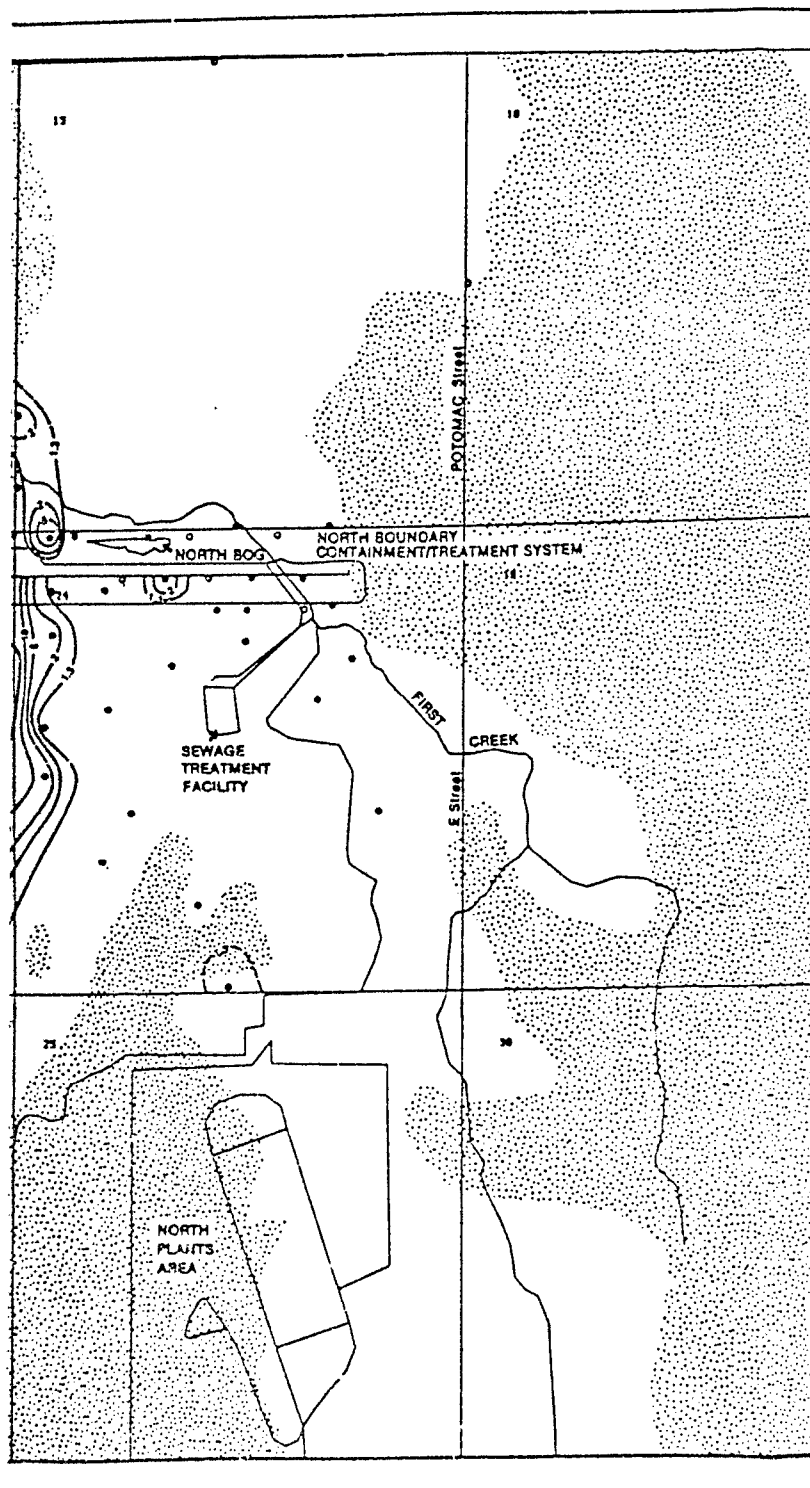


Figure B-76 B
 TRICHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l,
 2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

— 1 — ISOCONCENTRATION LINE

- - - 1 - - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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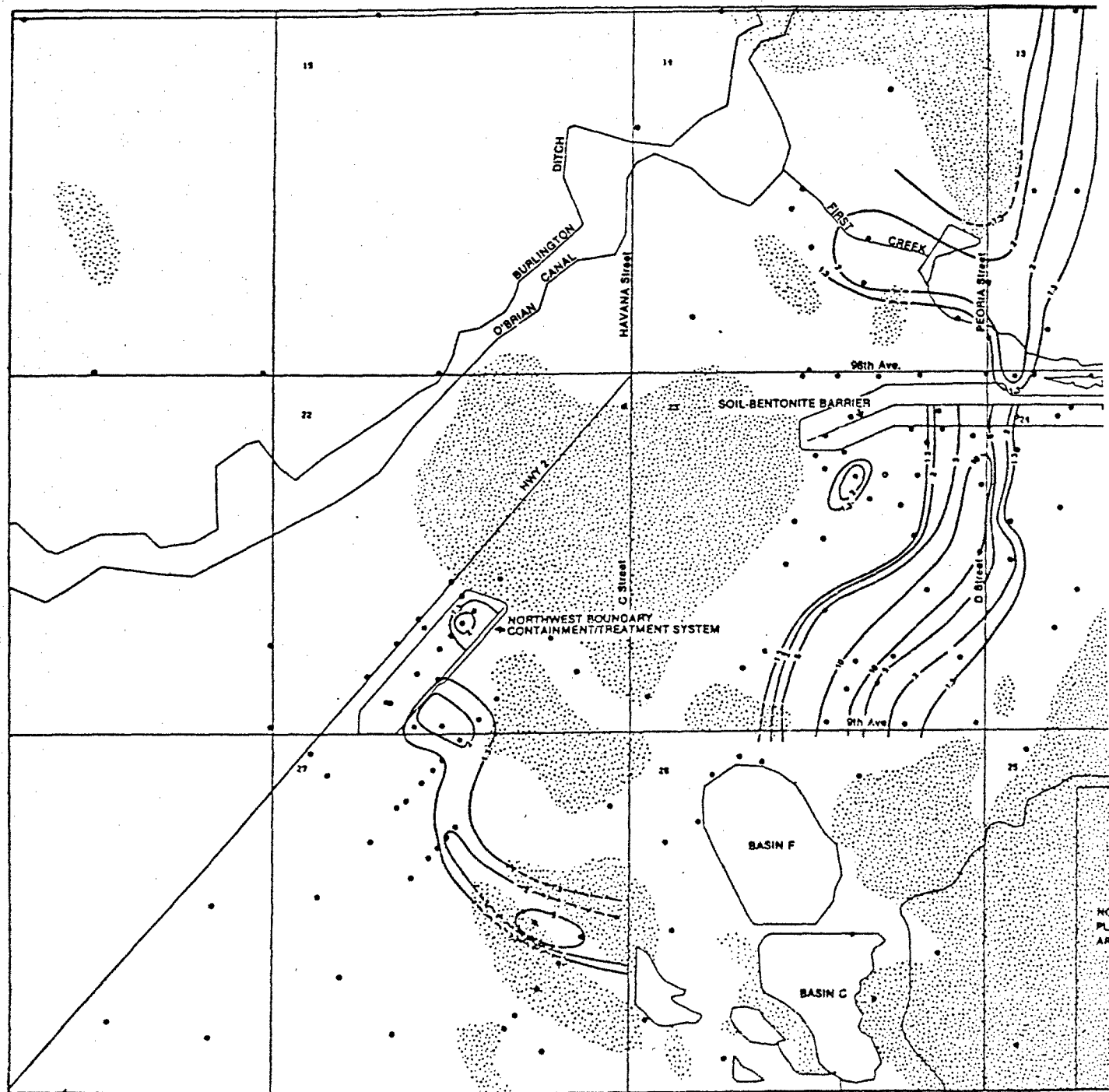
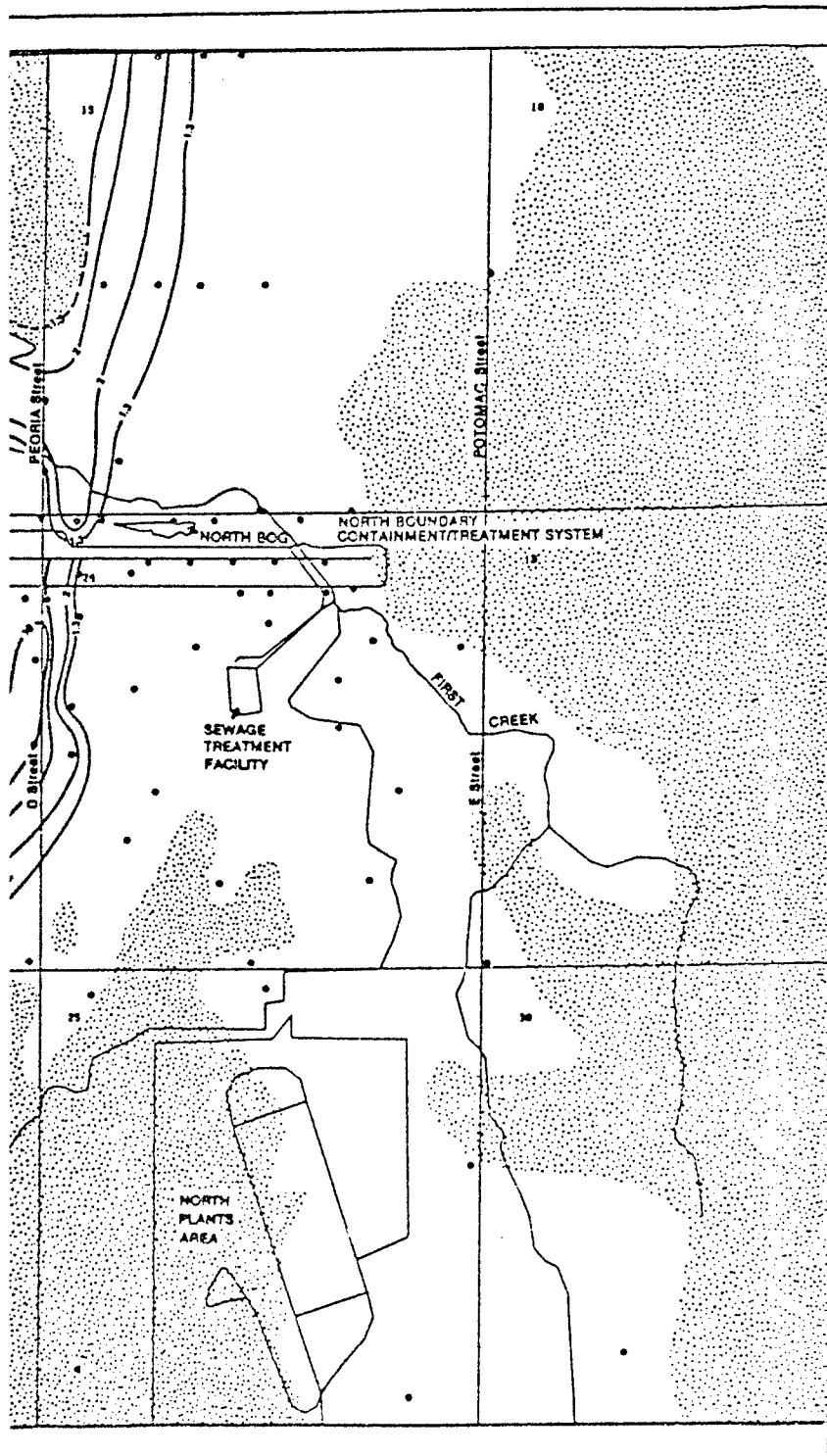


Figure B-76 C
 TRICHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l,
 3RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

— ISOCONCENTRATION LINE

- - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL -
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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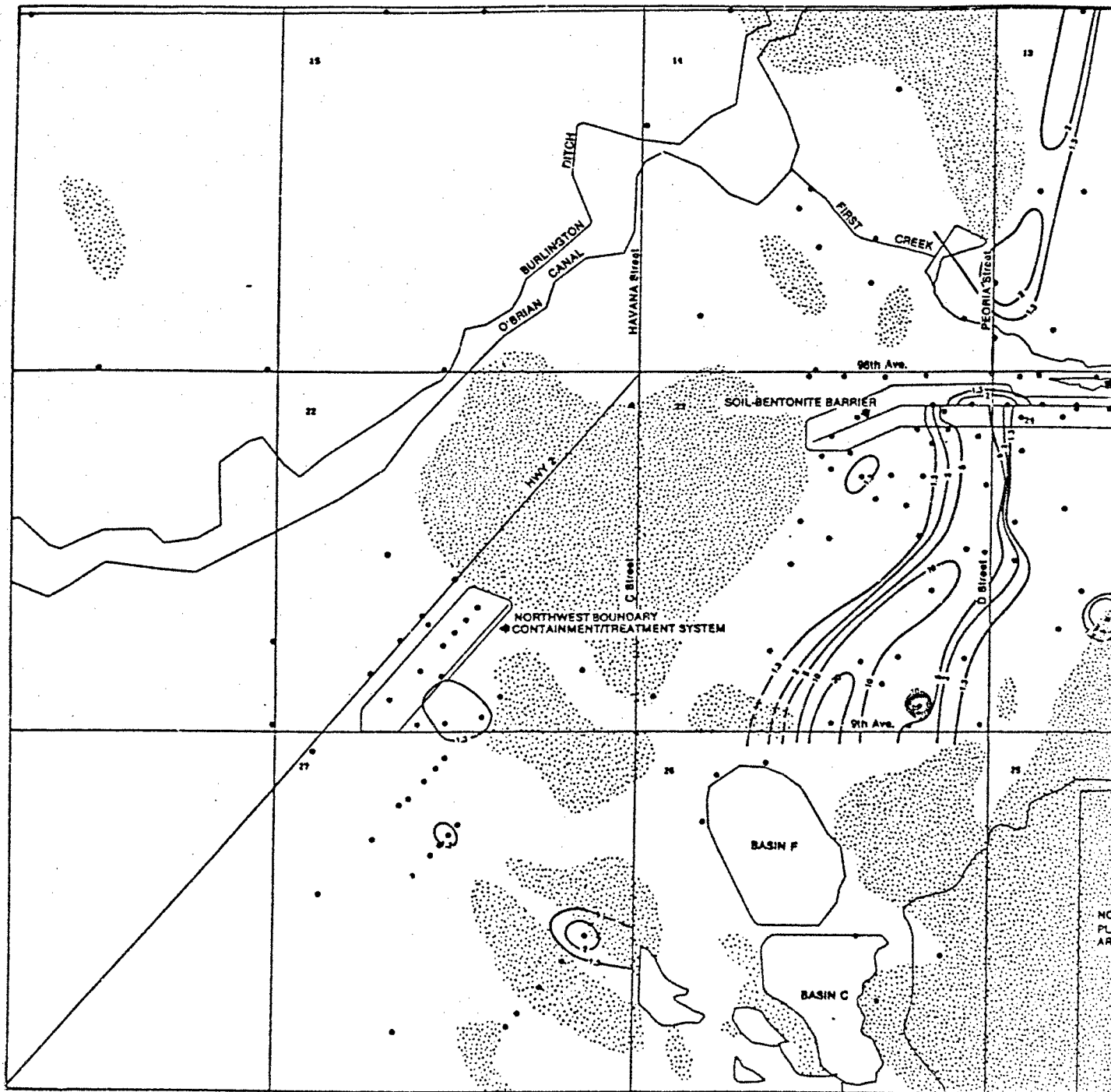
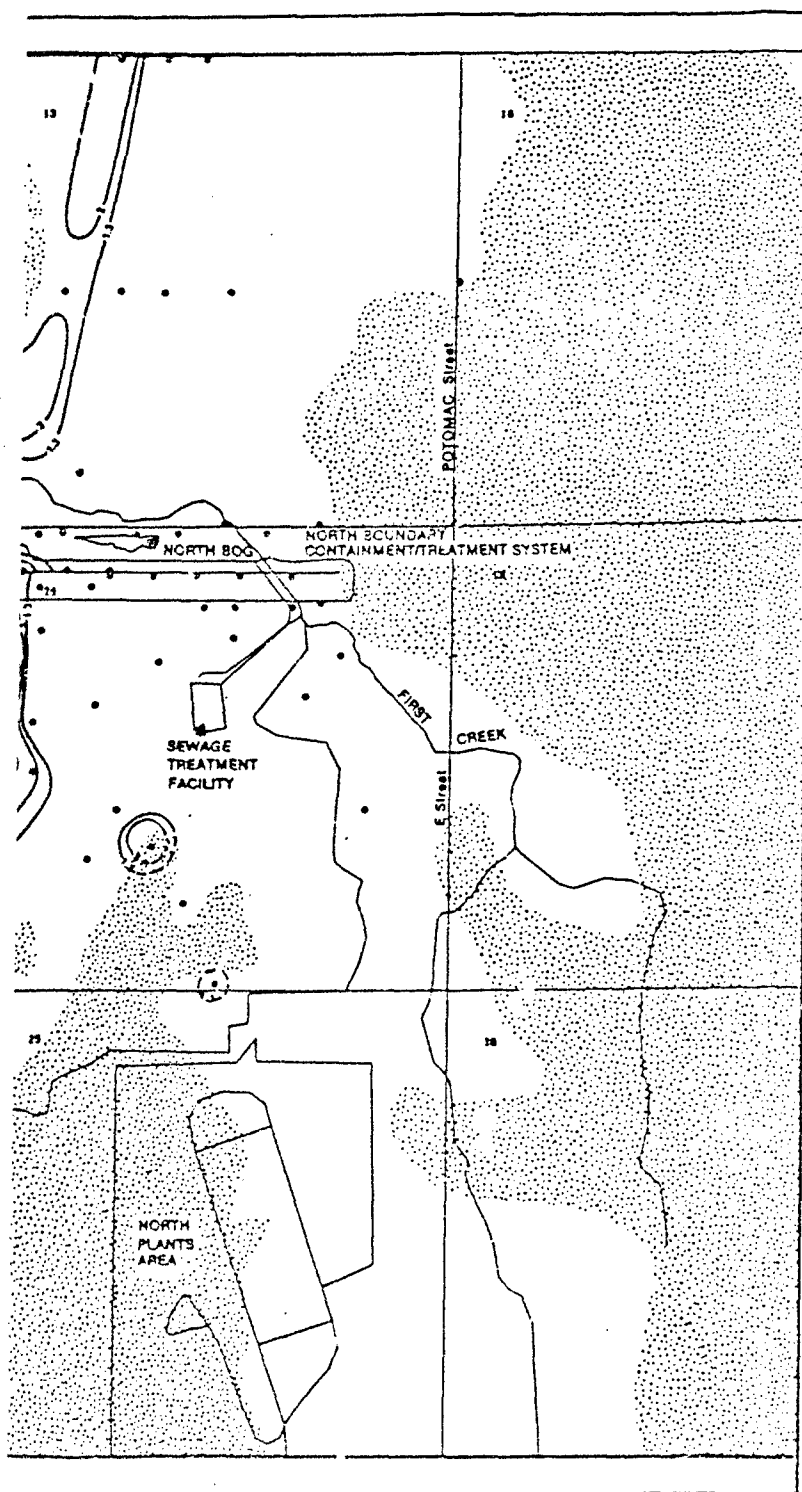


Figure B-76 D
 RICHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l,
 4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

— ISOCONCENTRATION LINE

- - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



0 1000 2000
Scale In Feet

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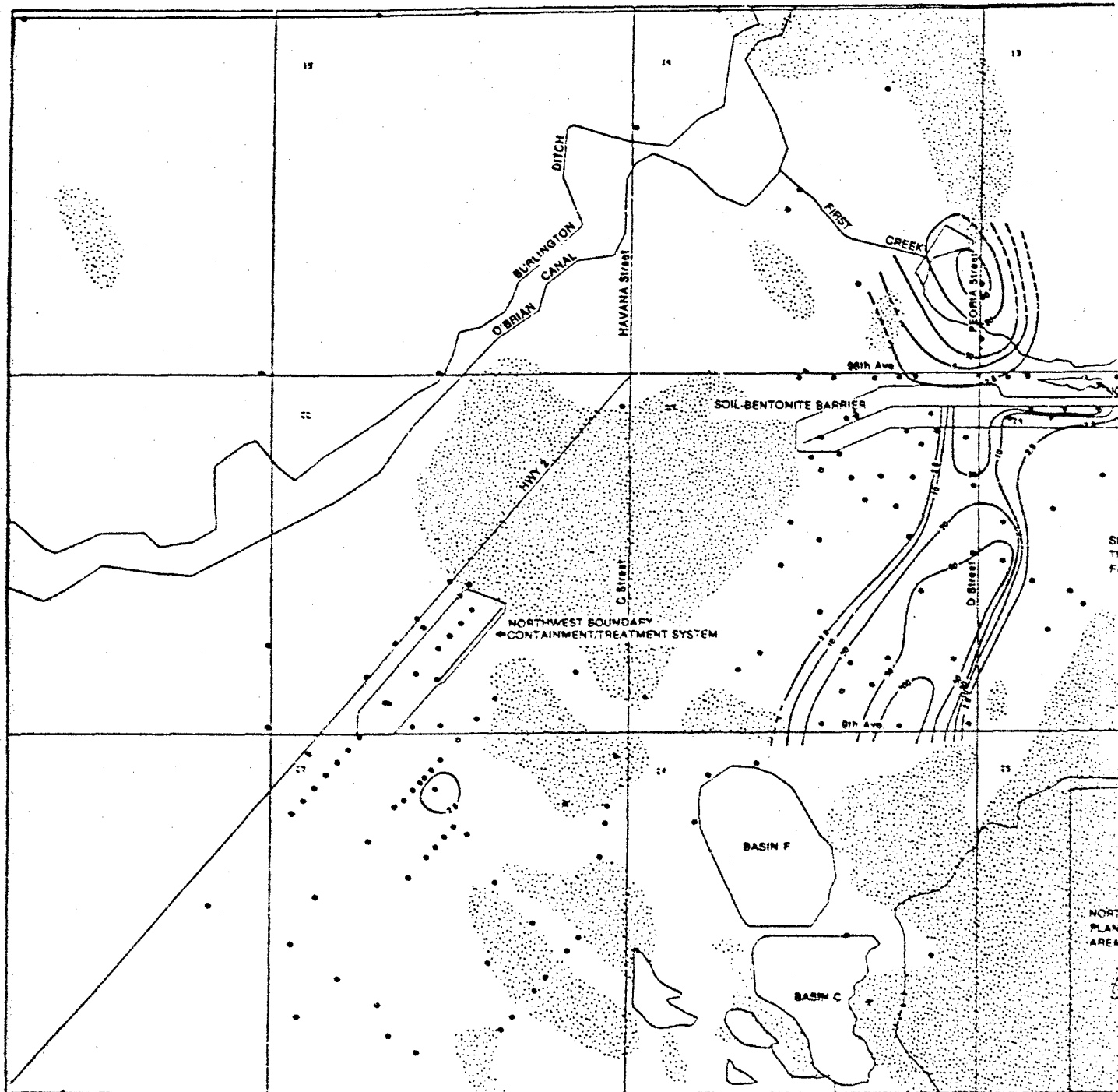
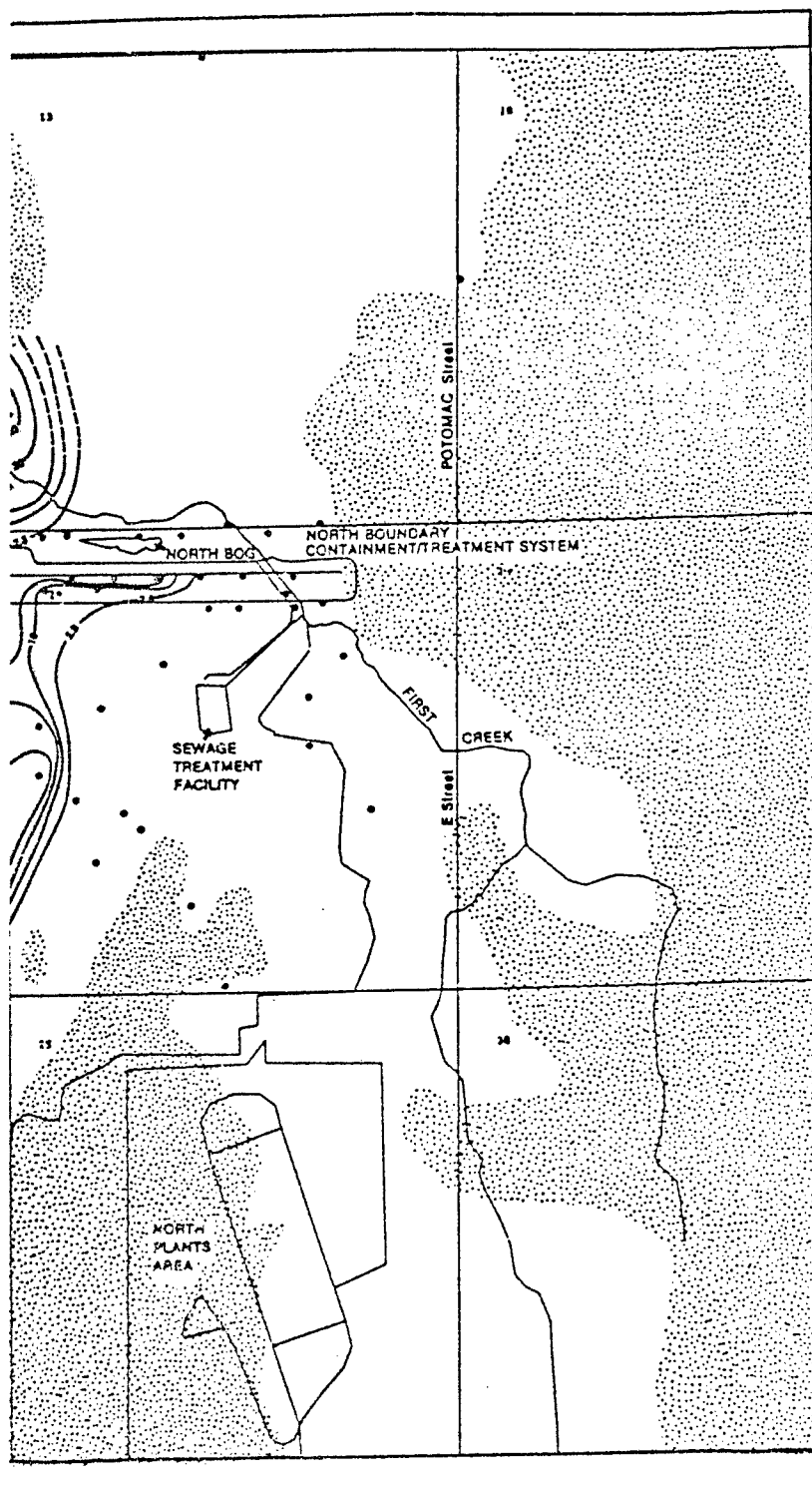


Figure B-77A
 Trachloroethene Concentration Distribution, ug/l,
 1st Quarter, FY87, Alluvial Aquifer



EXPLANATION

CONCENTRATIONS IN ug/l

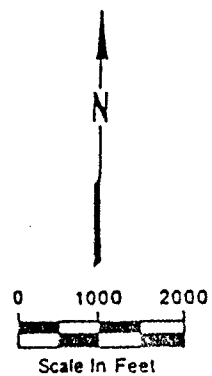
— 1 — ISOCONCENTRATION LINE

- - - 1 - - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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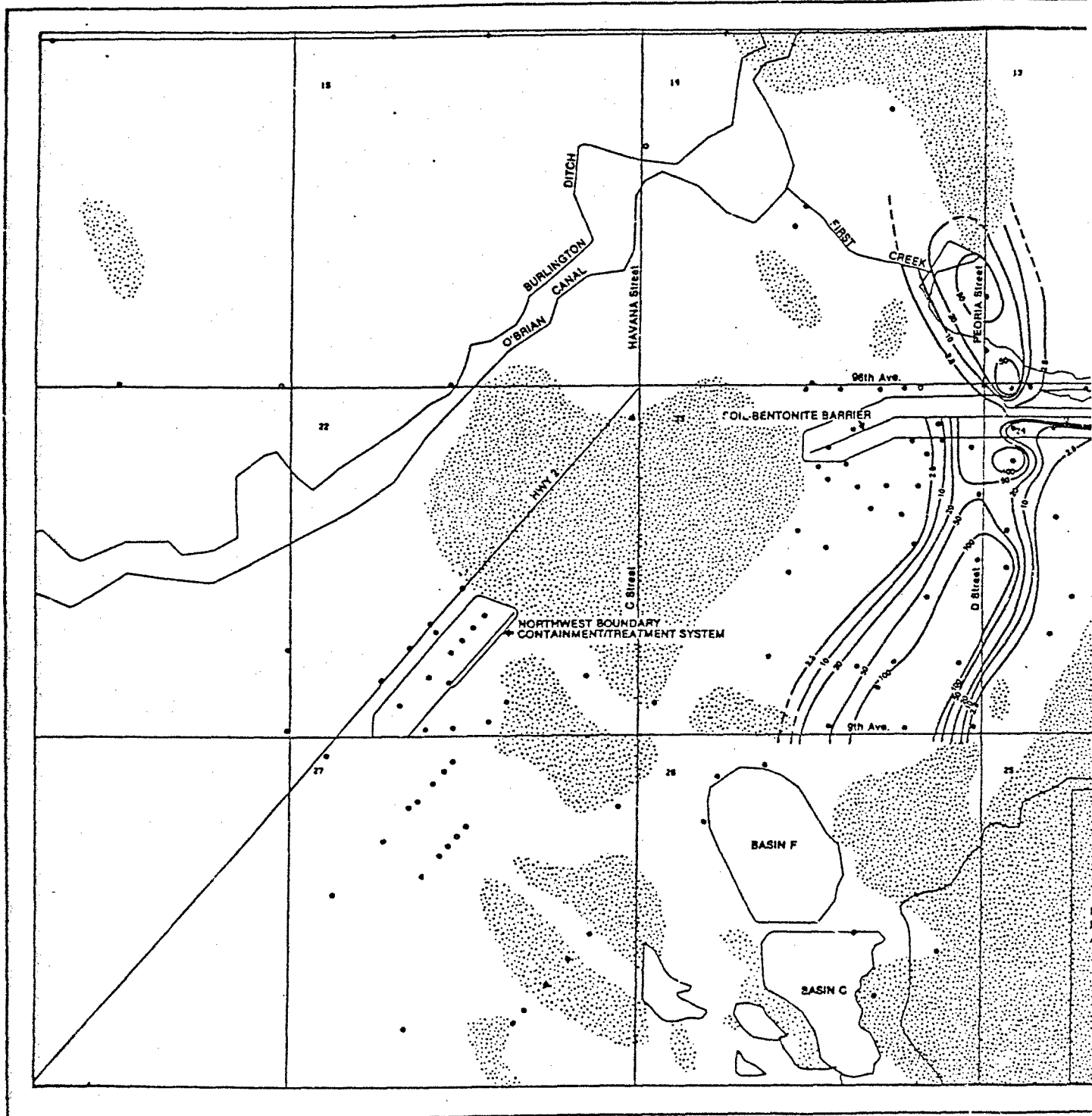
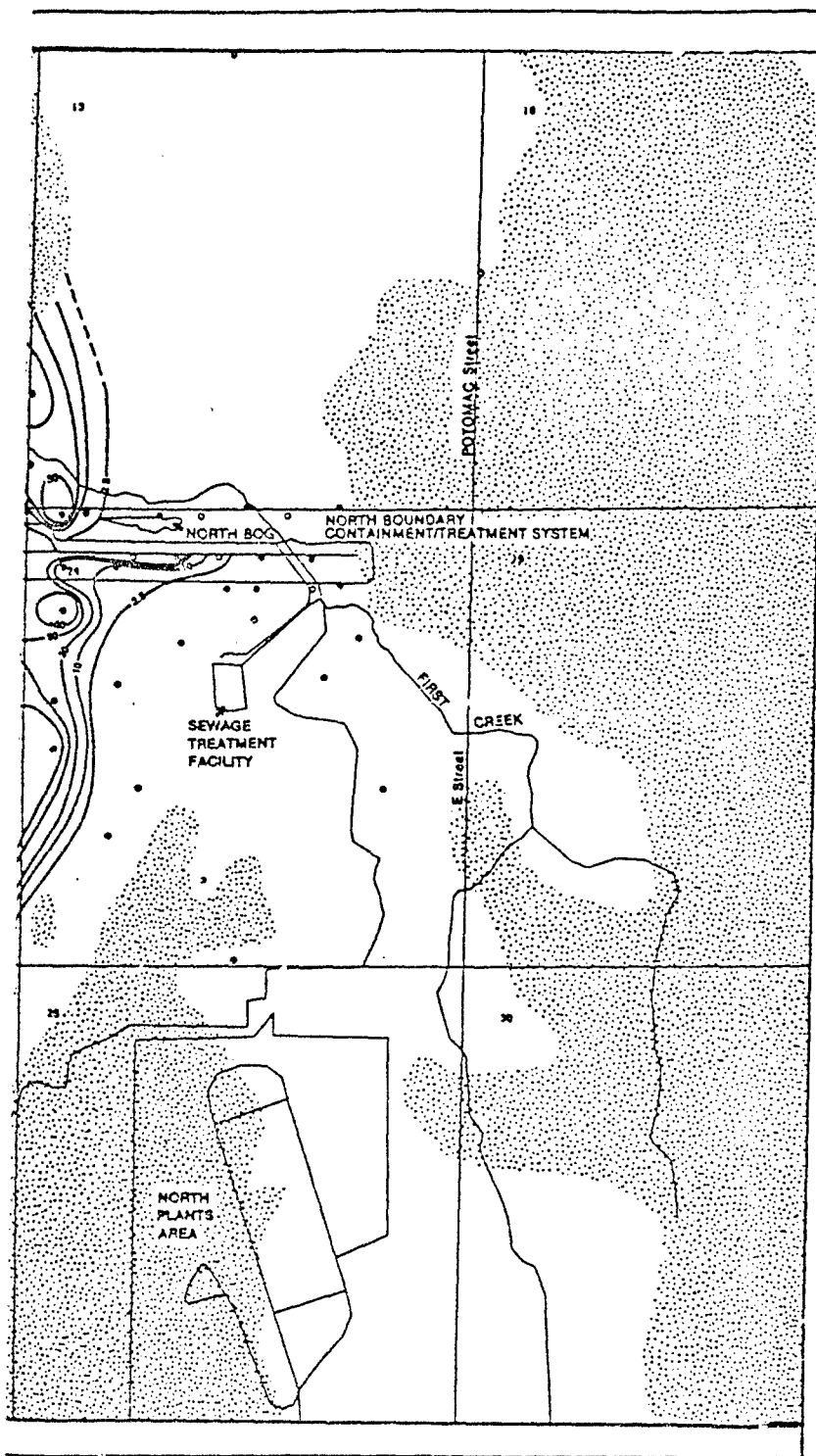


Figure 8-77 B
TETRACHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l,
2ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

— 1 — ISOCONCENTRATION LINE

- - - 1 - - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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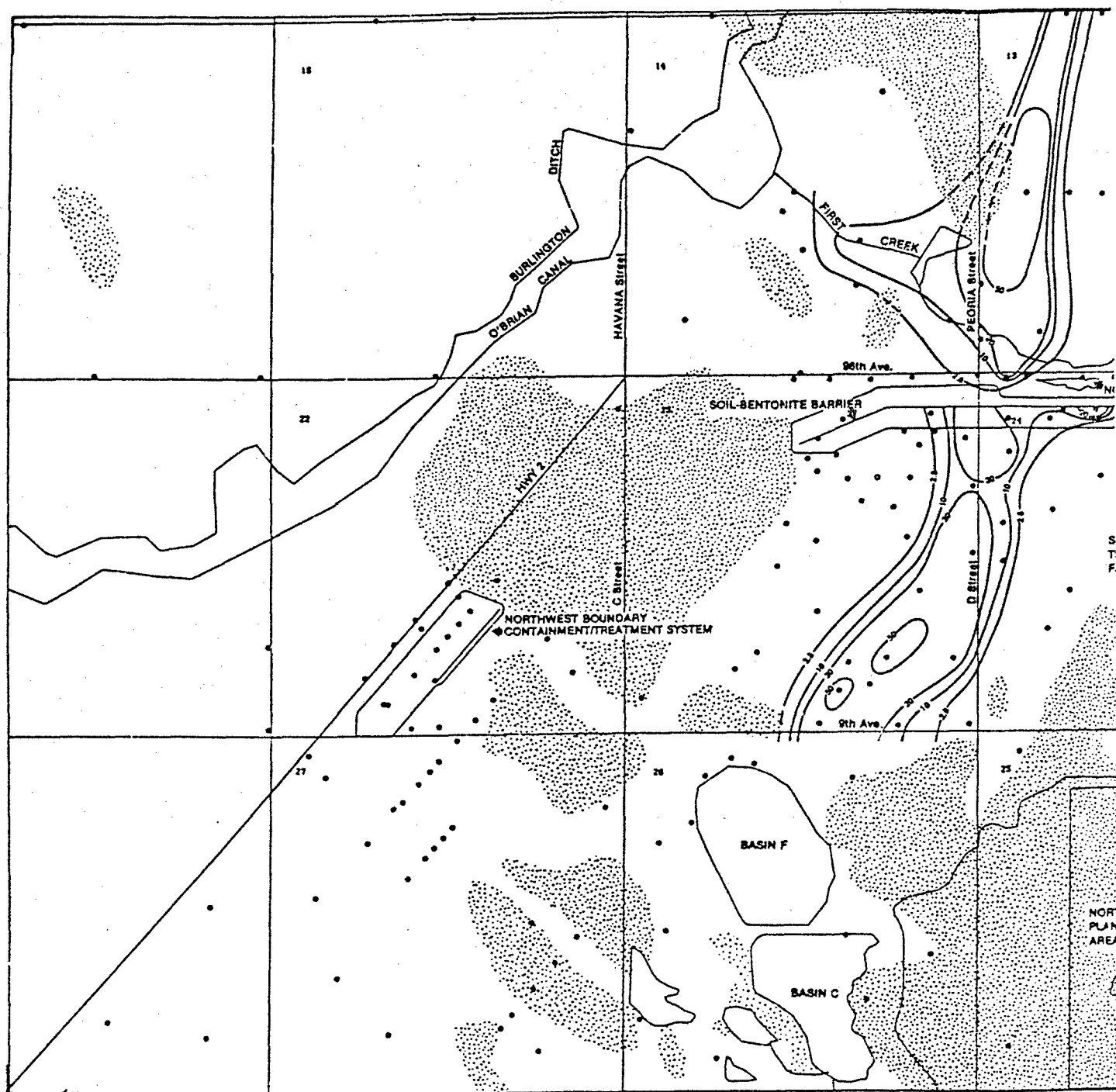
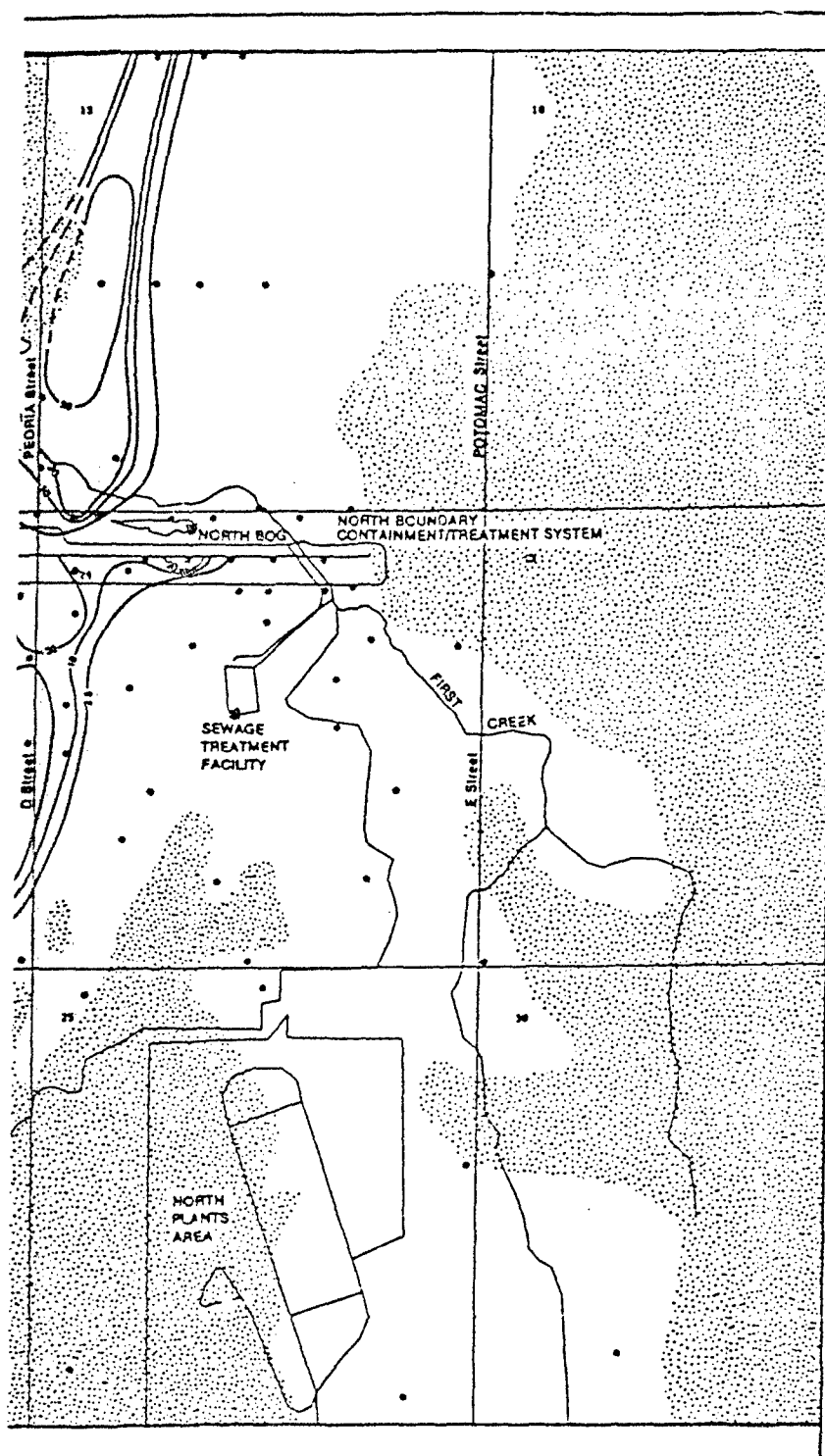


Figure B-77C
 Trachloroethene Concentration Distribution, ug/l,
 3rd Quarter, FY87, Alluvial Aquifer

URCE:ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

— 1 — ISOCONCENTRATION LINE

- - - 1 - - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



0 1000 2000



Scale In Feet

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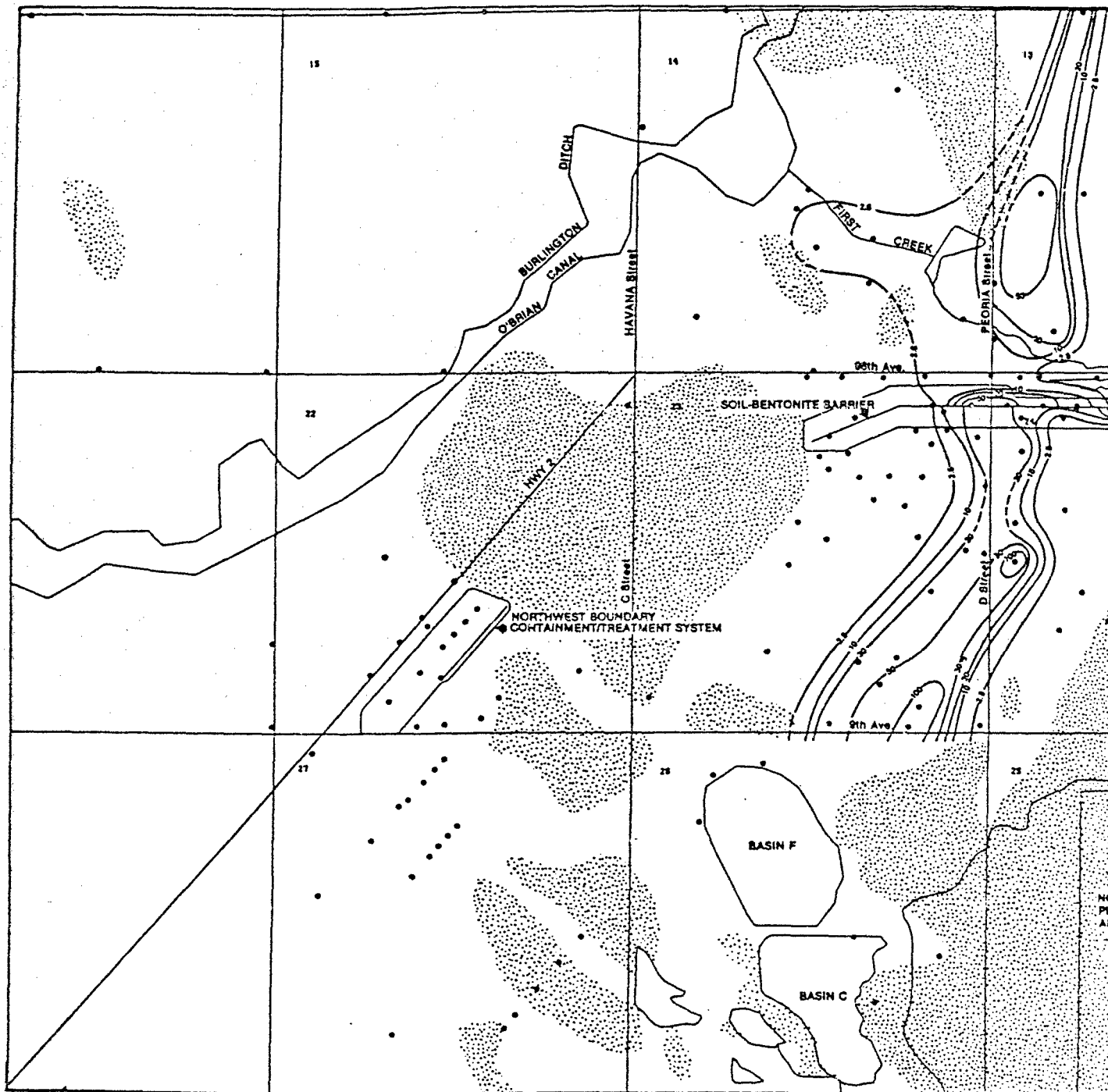
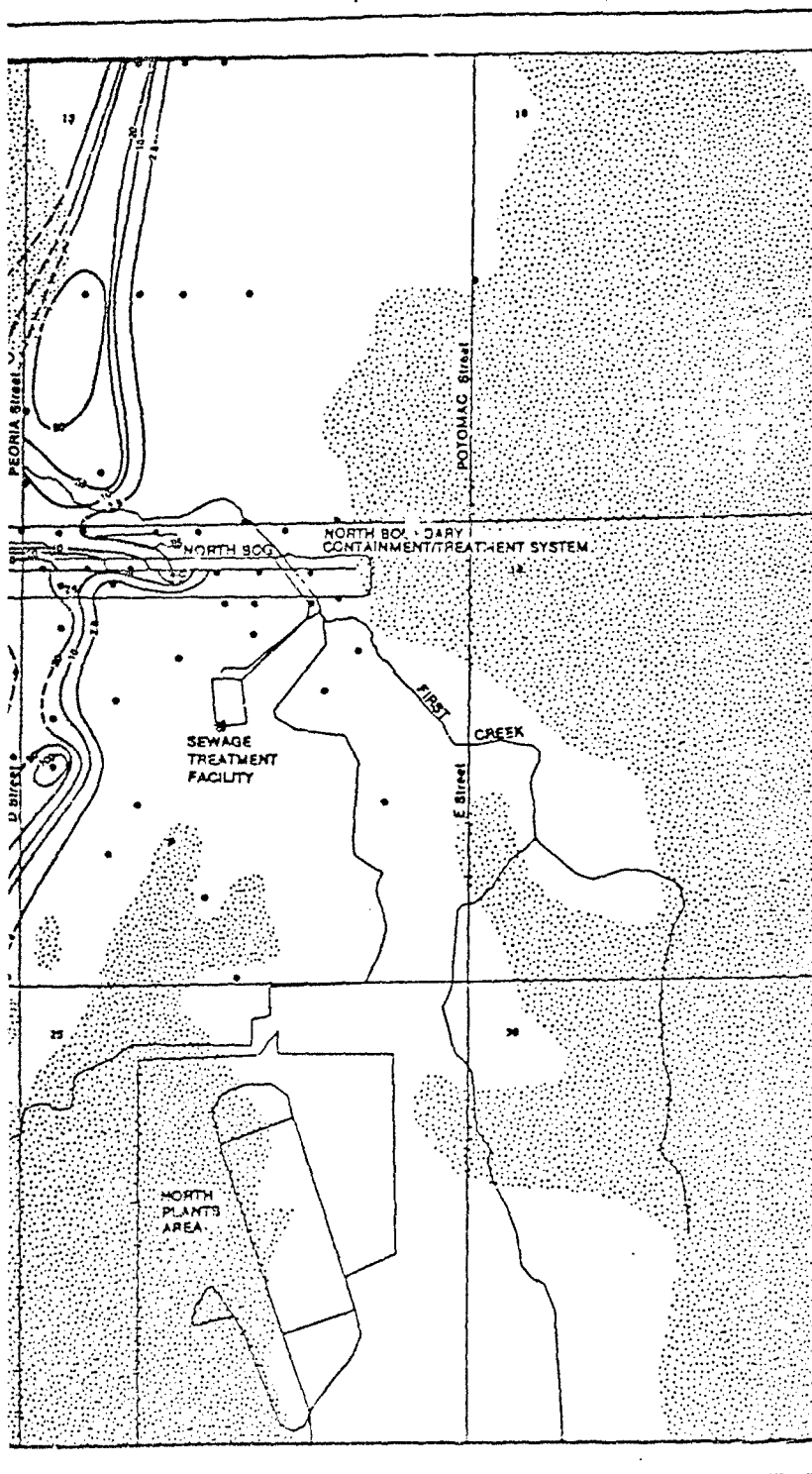


Figure B-77 D
TETRACHLOROETHENE CONCENTRATION DISTRIBUTION, ug/l,
4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



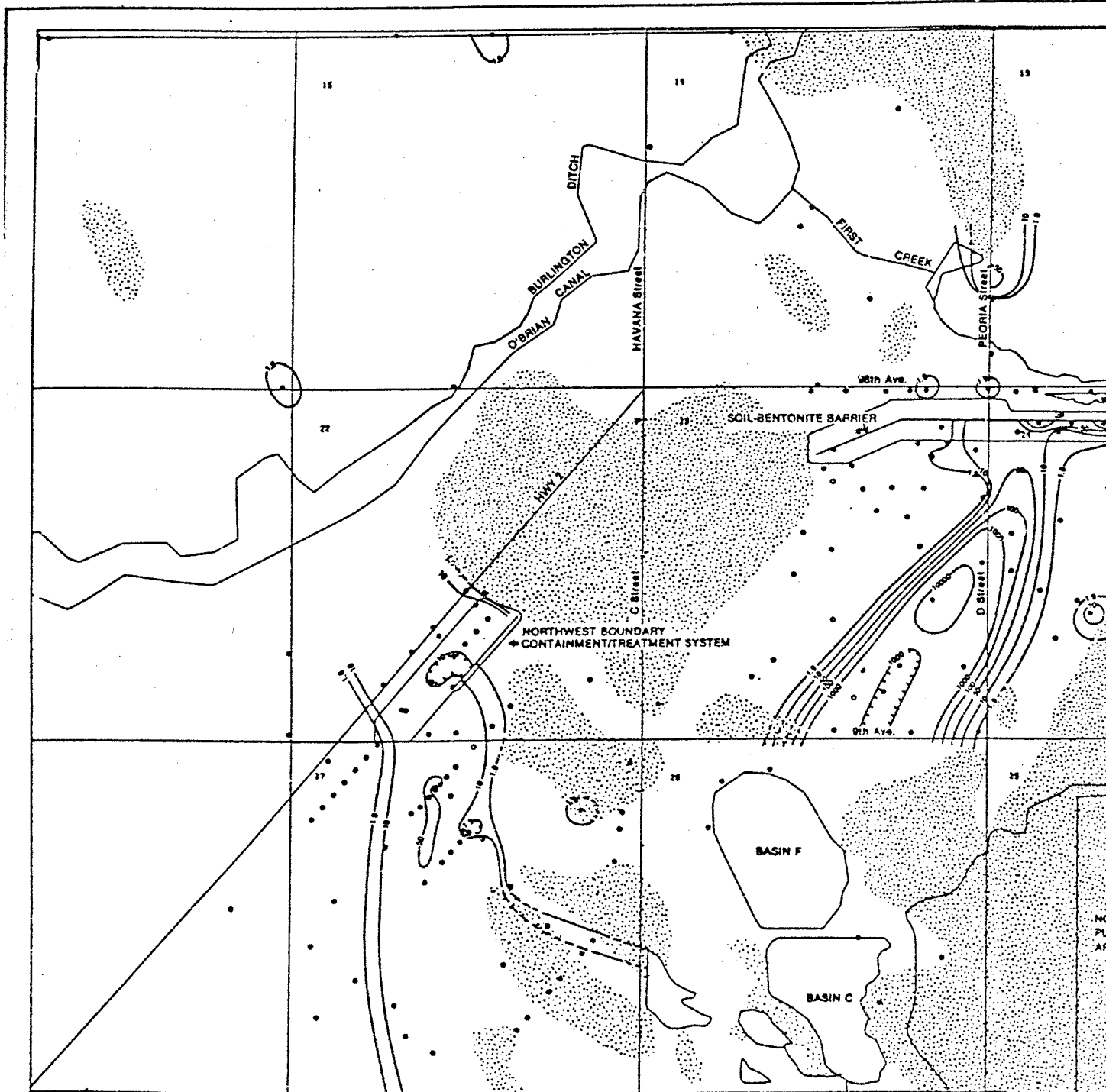
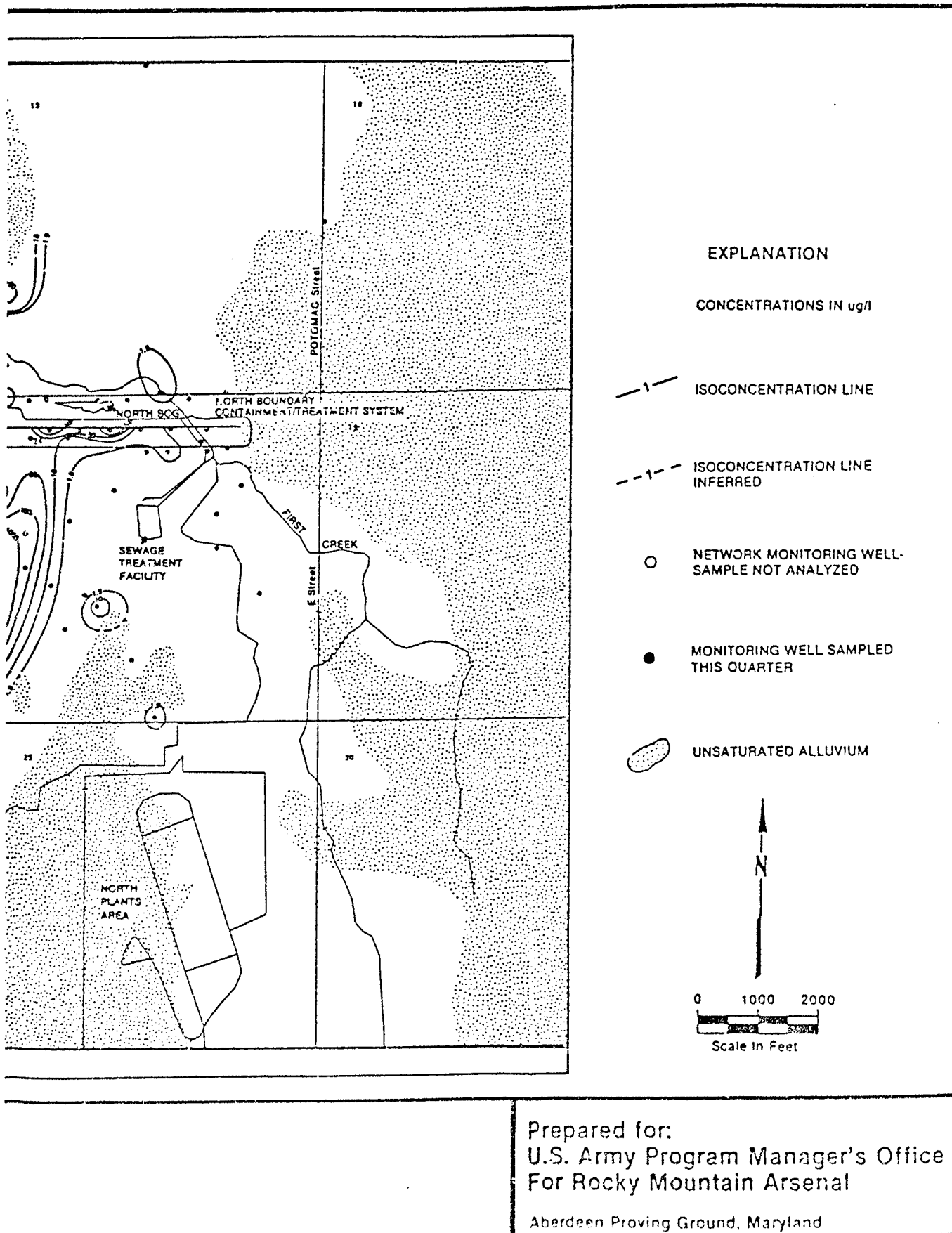


Figure B-78A
CHLOROFORM CONCENTRATION DISTRIBUTION, ug/l,
1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1998



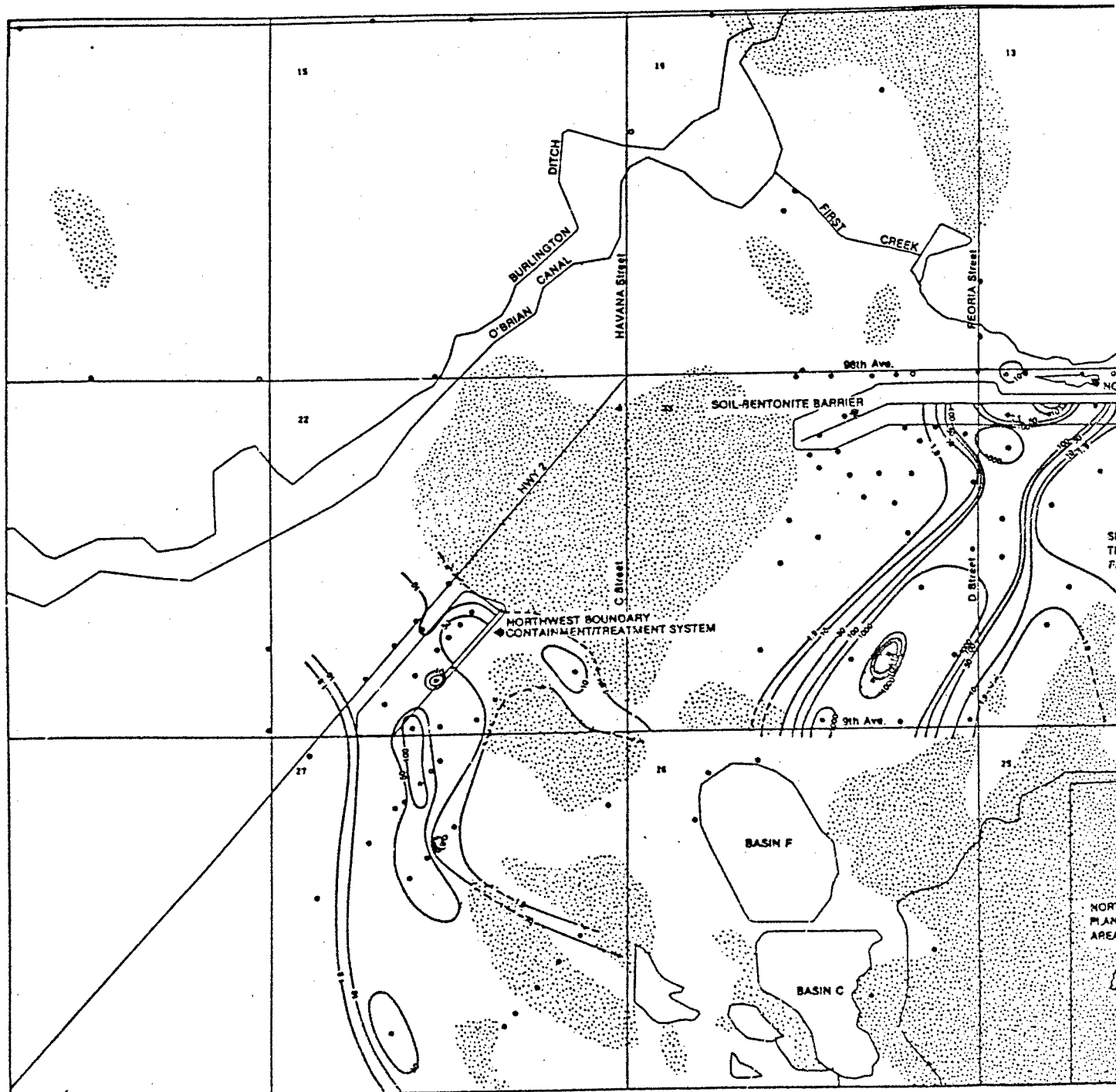
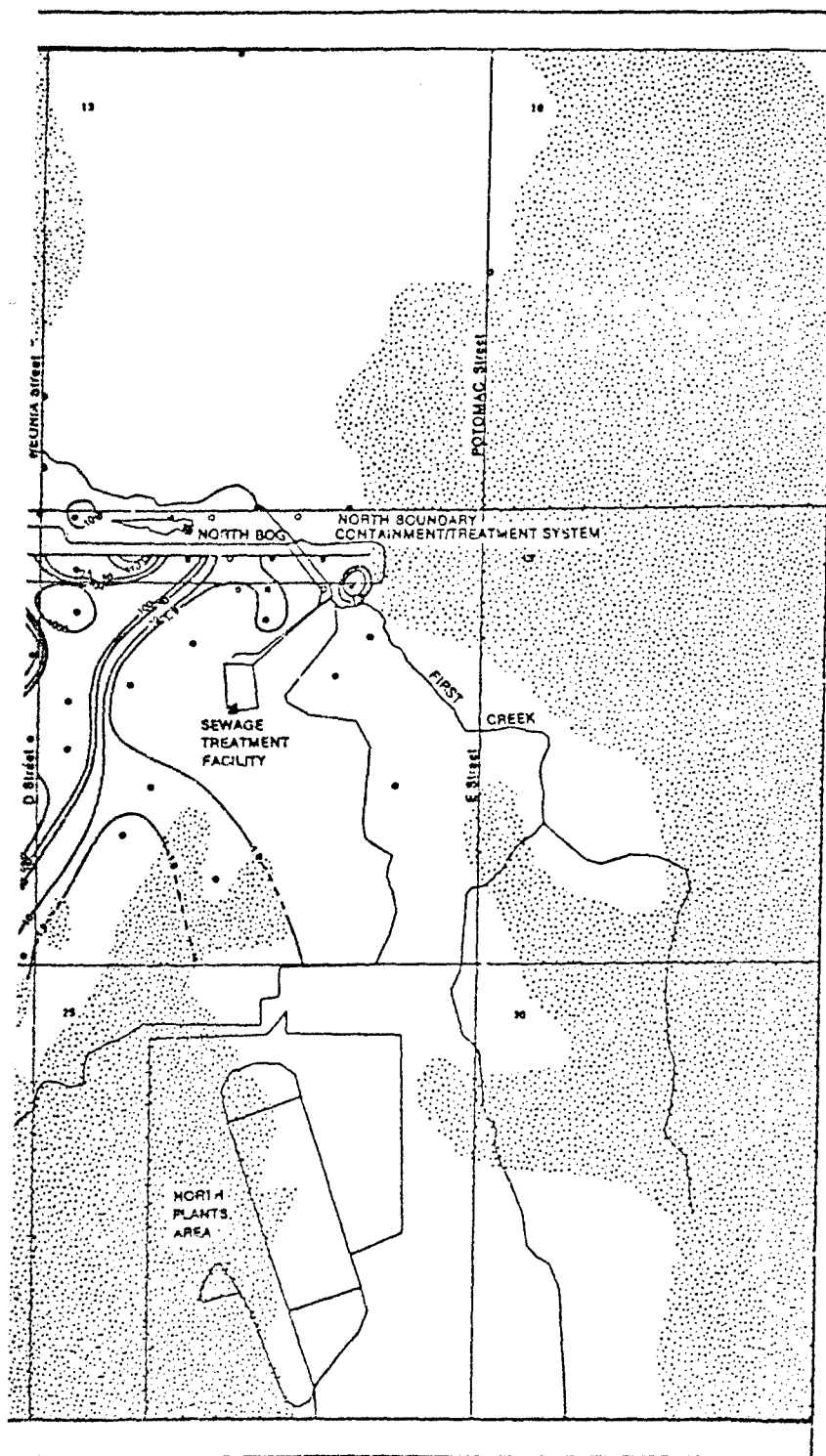


Figure B-78B
 CHLOROFORM CONCENTRATION DISTRIBUTION, $\mu\text{g/l}$,
 ID QUARTER, FY87, ALLUVIAL AQUIFER

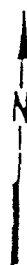
URCE:ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

- 1 — ISOCONCENTRATION LINE
- - 1 - - ISOCONCENTRATION LINE INFERRED
- NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED
- MONITORING WELL SAMPLED
THIS QUARTER
- UNSATURATED ALLUVIUM



0 1000 2000
Scale In Feet

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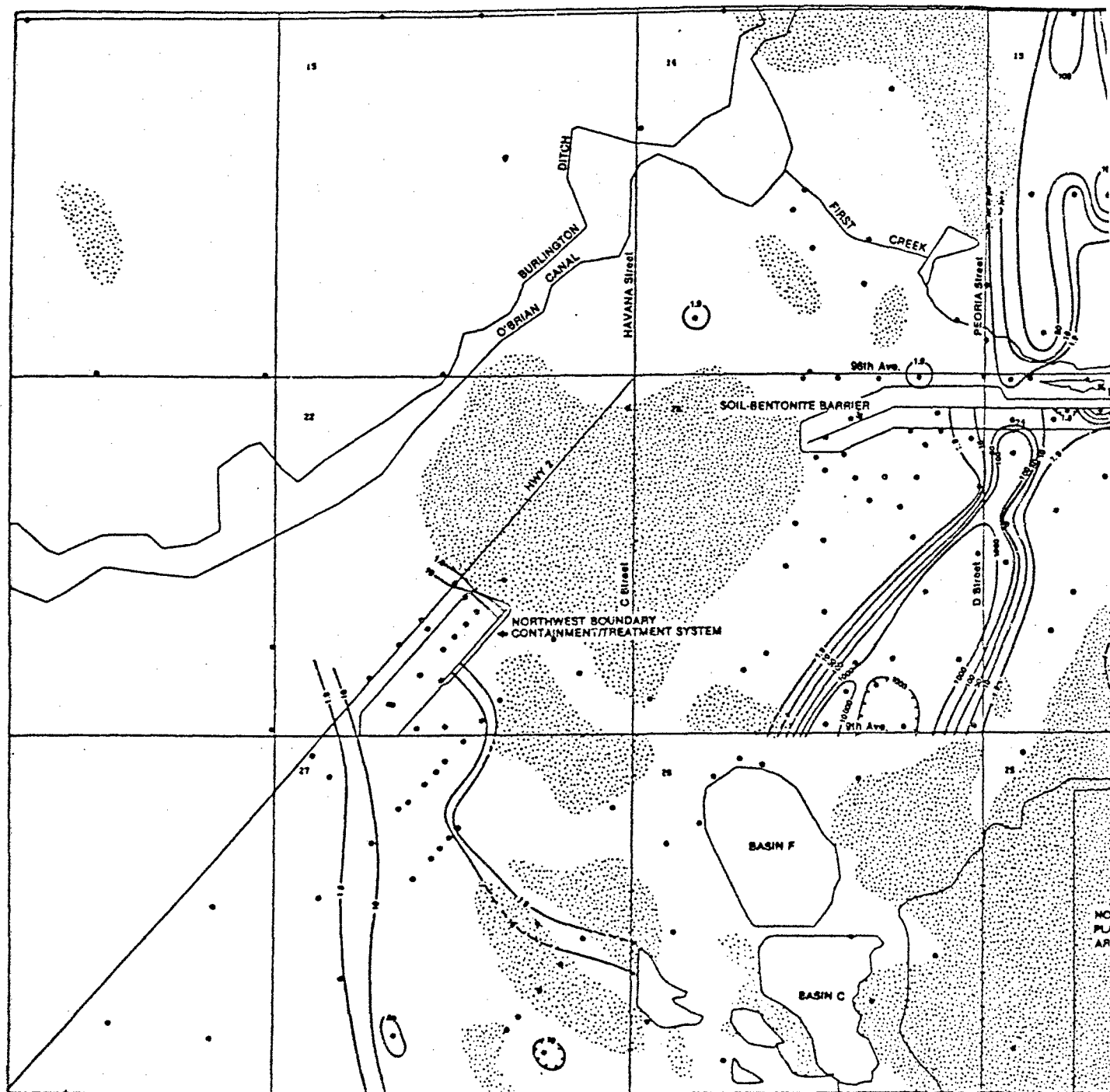
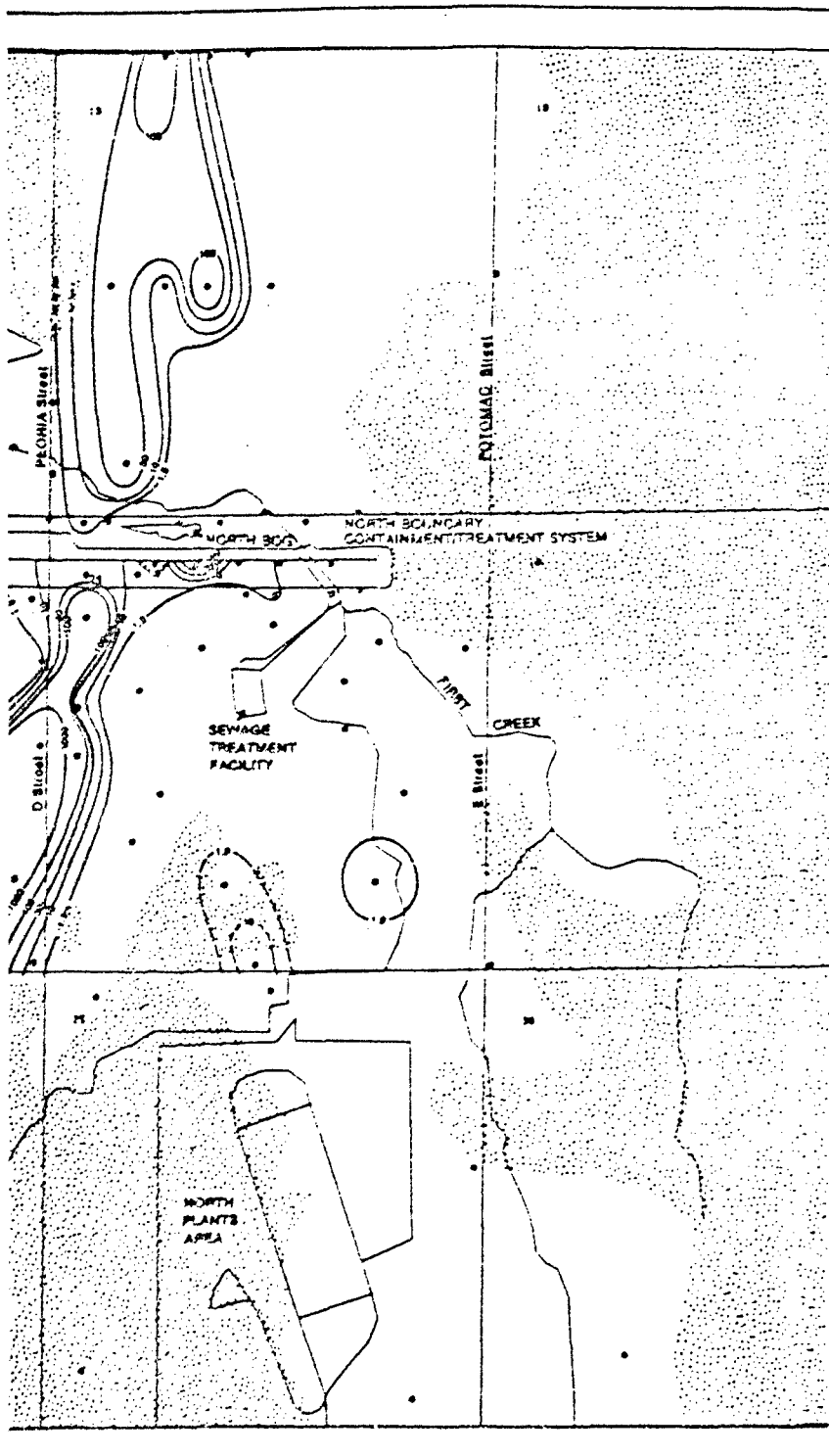


Figure B-78C
 CHLOROFORM CONCENTRATION DISTRIBUTION, ug/l,
 4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1989



EXPLANATION

CONCENTRATIONS IN ug/l

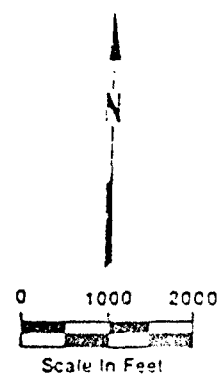
— ISOCOCONCENTRATION LINE

- - - ISOCOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL -
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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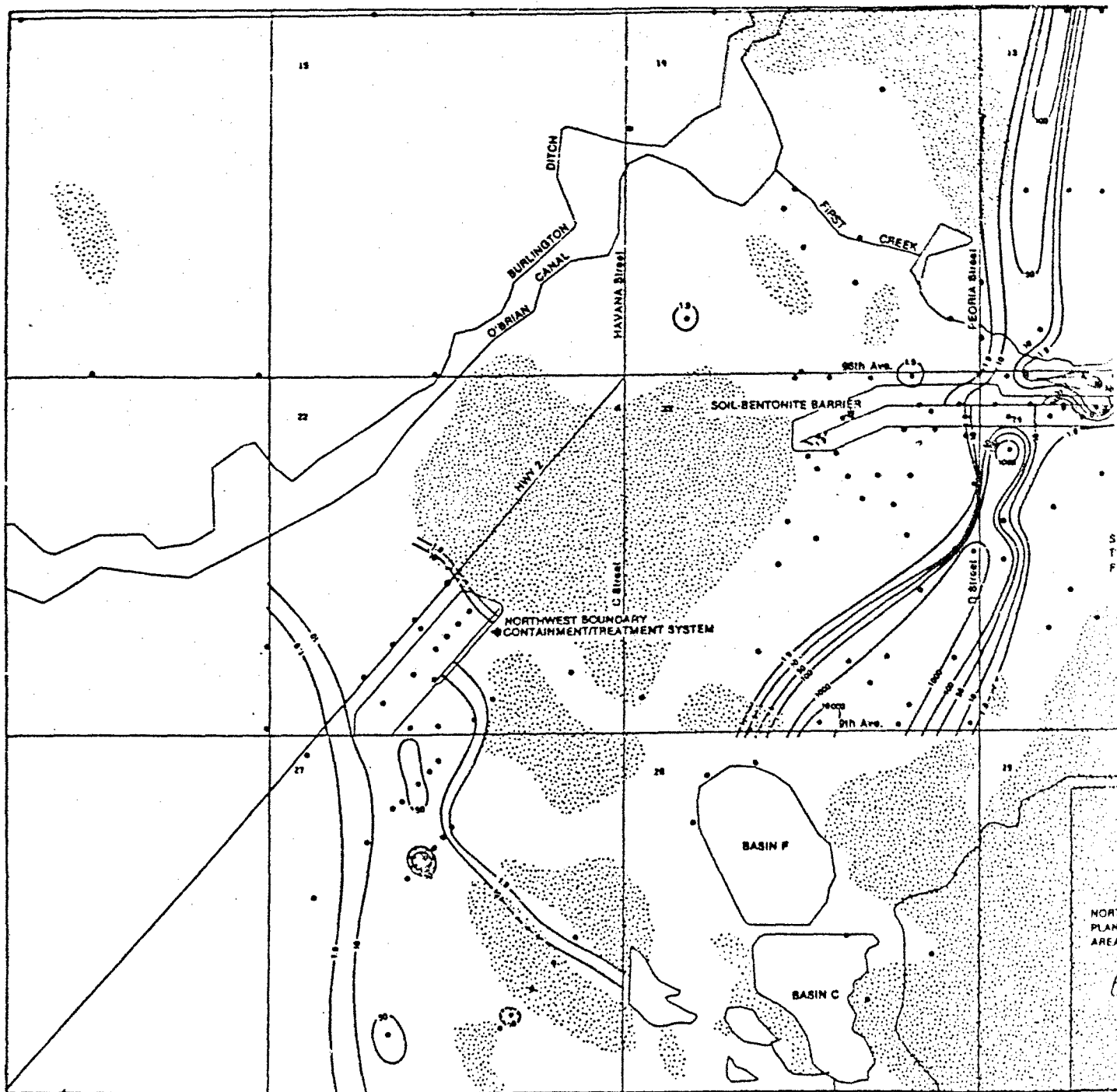
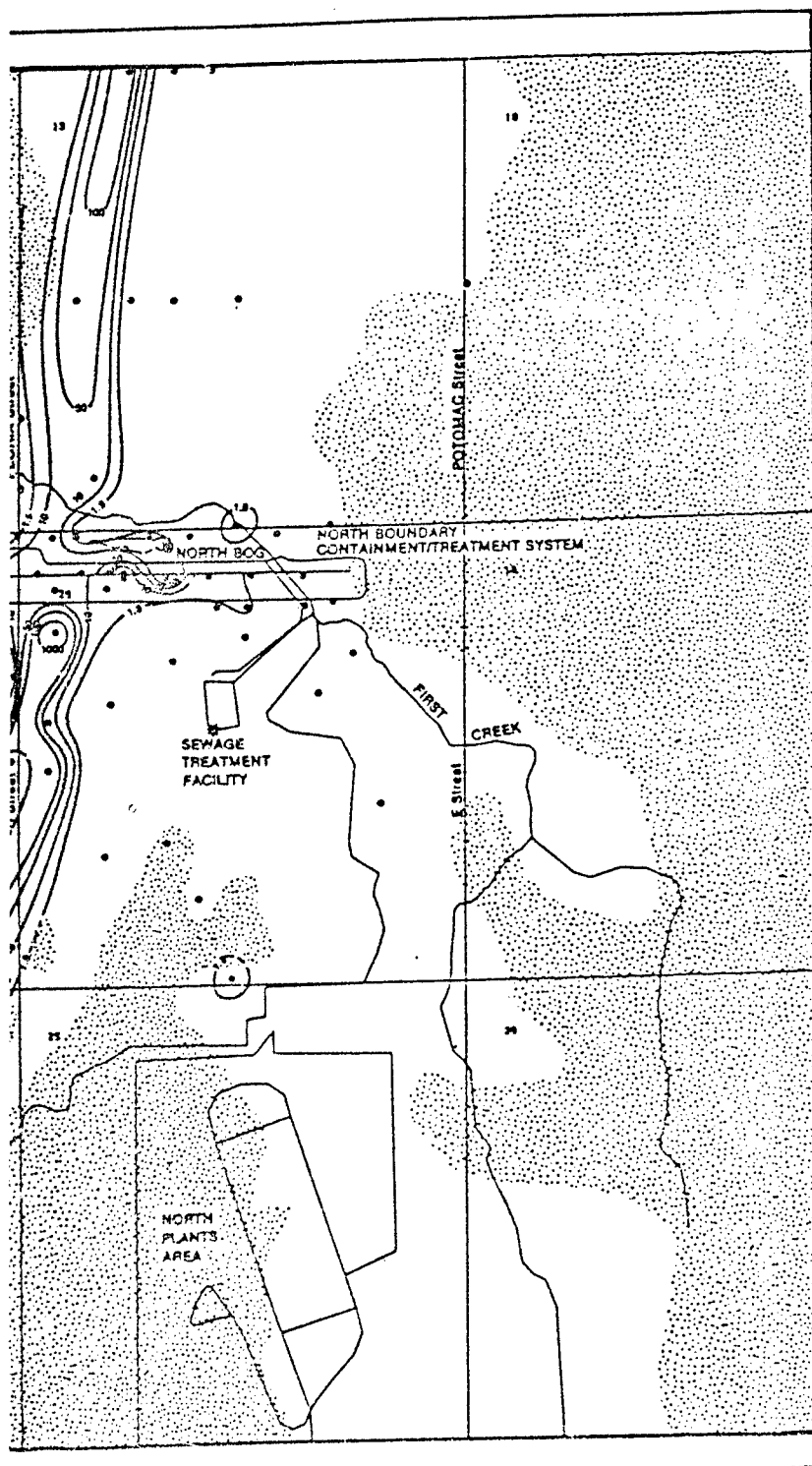


Figure B-78D
 CHLOROFORM CONCENTRATION DISTRIBUTION, ug/l,
 H QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

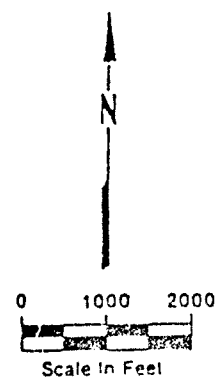
— ISOCONCENTRATION LINE

- - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL.
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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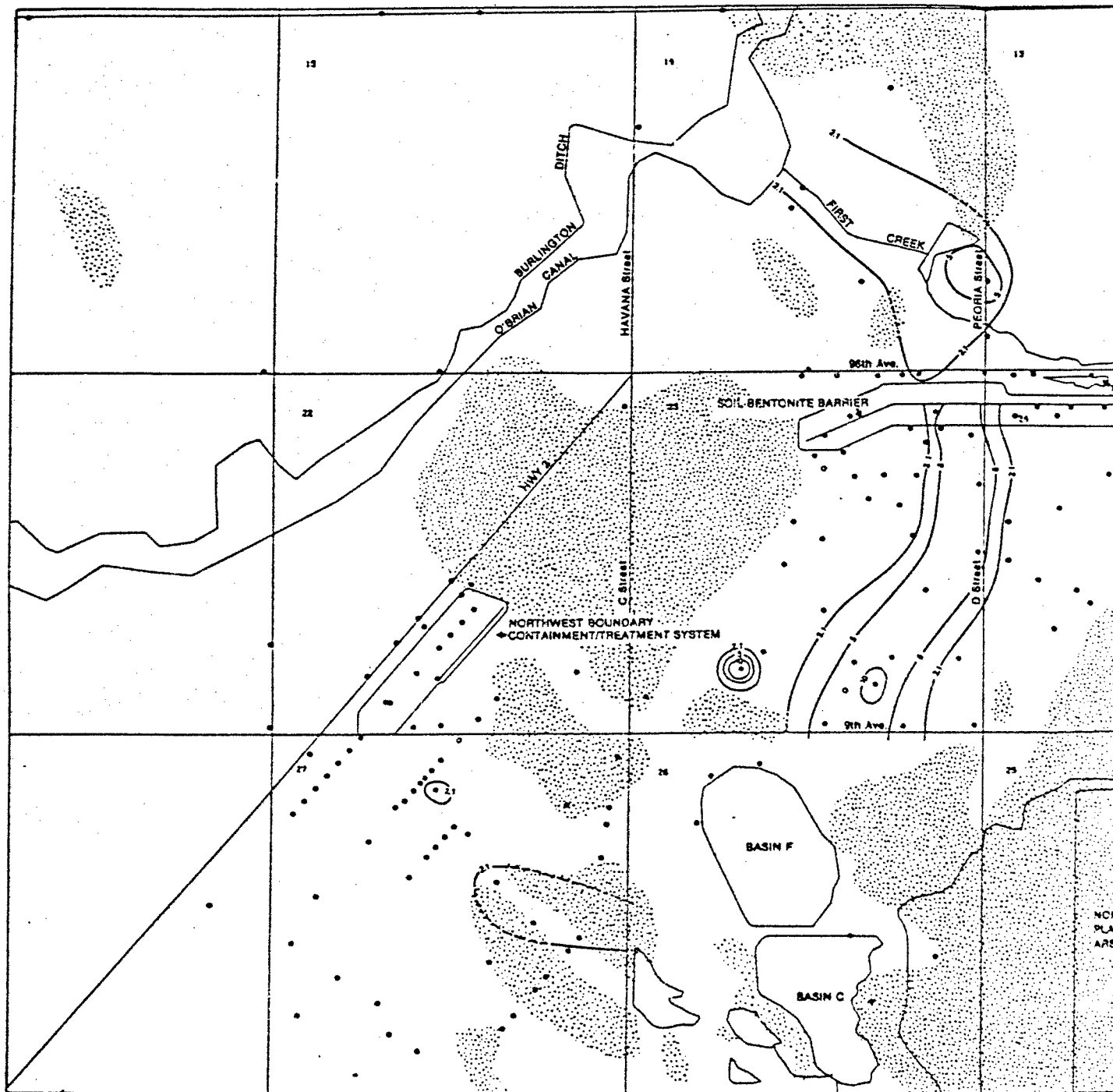
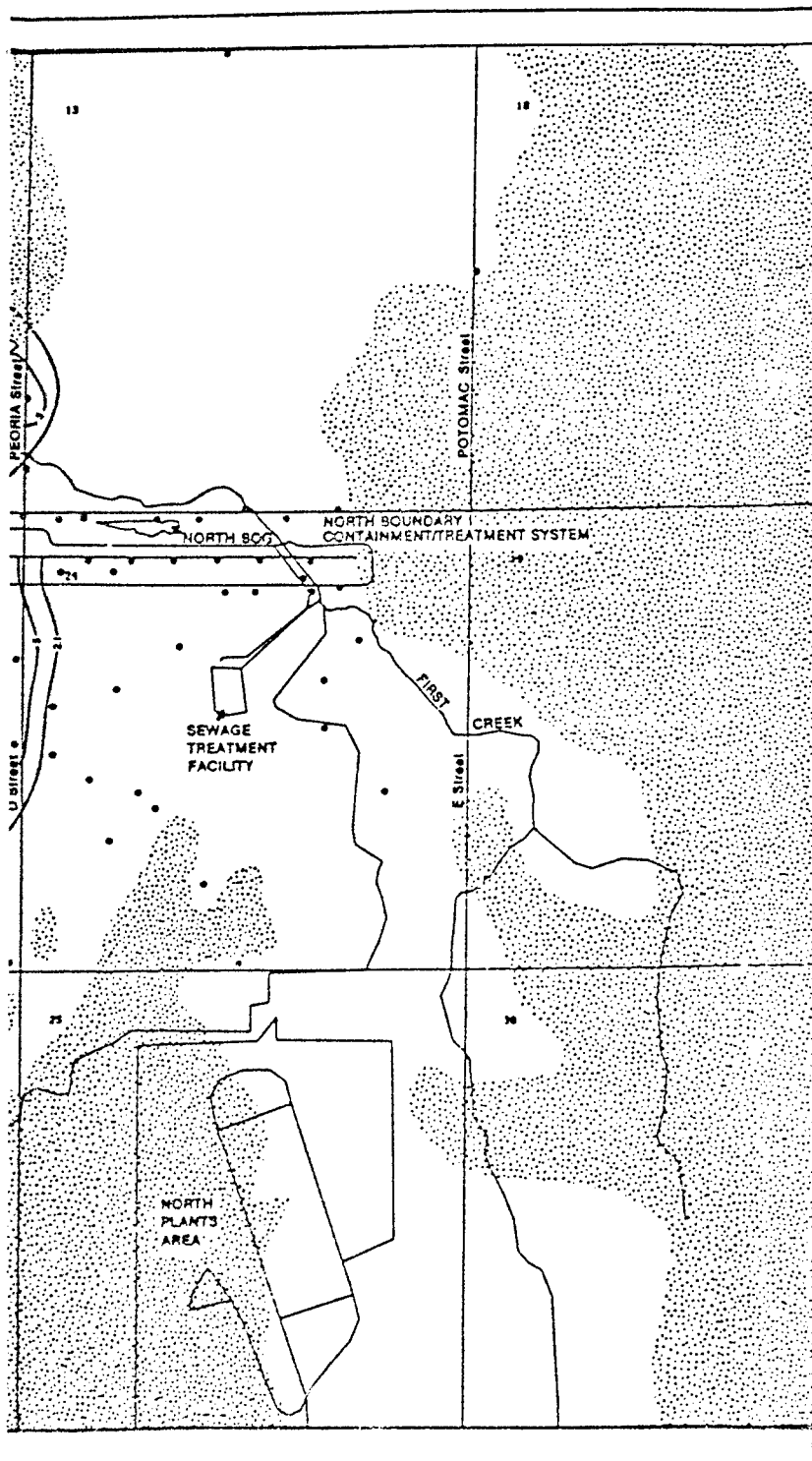


Figure B-79A
2-DICHLOROETHANE CONCENTRATION DISTRIBUTION, ug/l,
ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

— ISOCONCENTRATION LINE

- - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL.
SAMPLE NOT ANALYZED

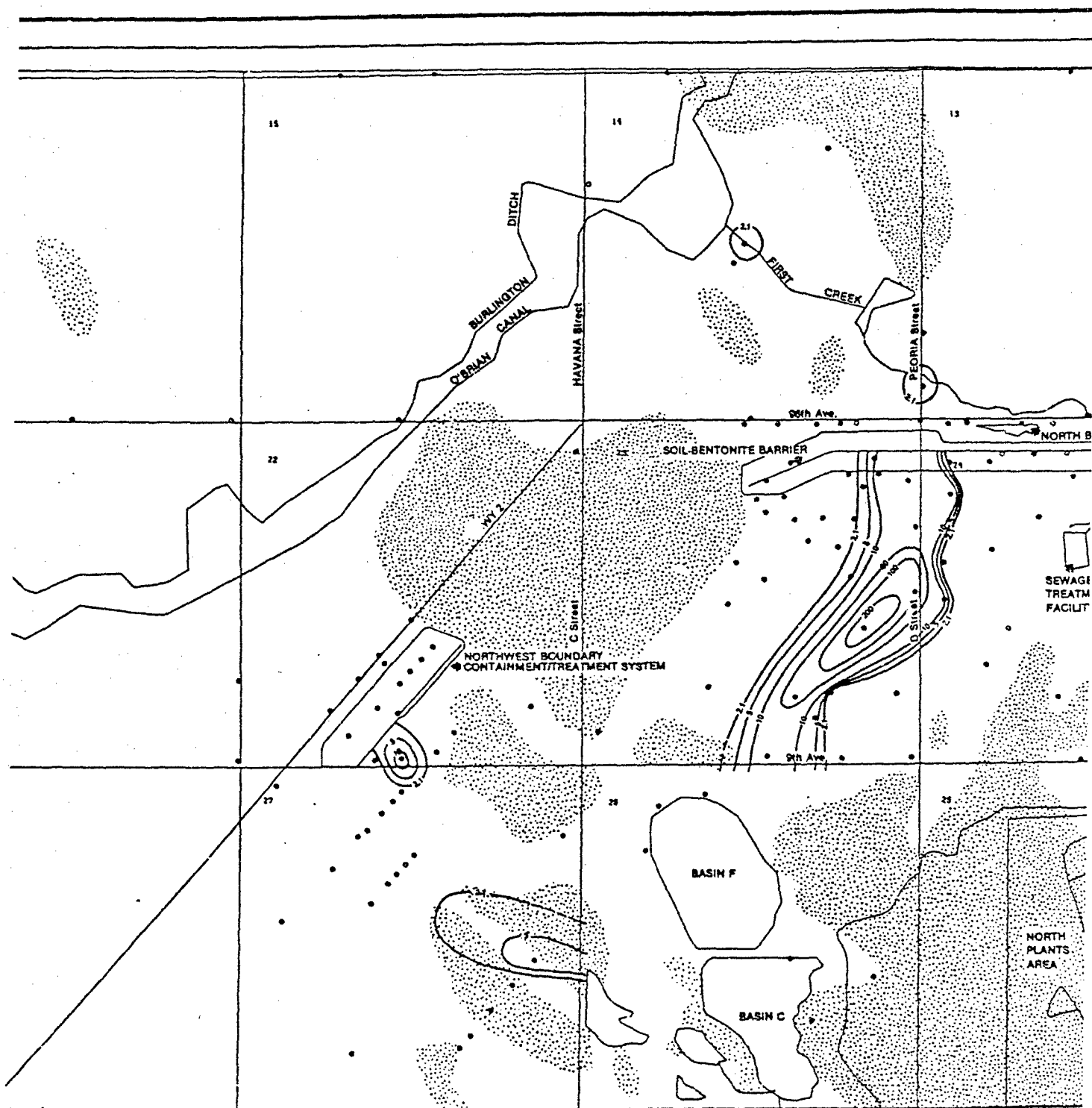
● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM

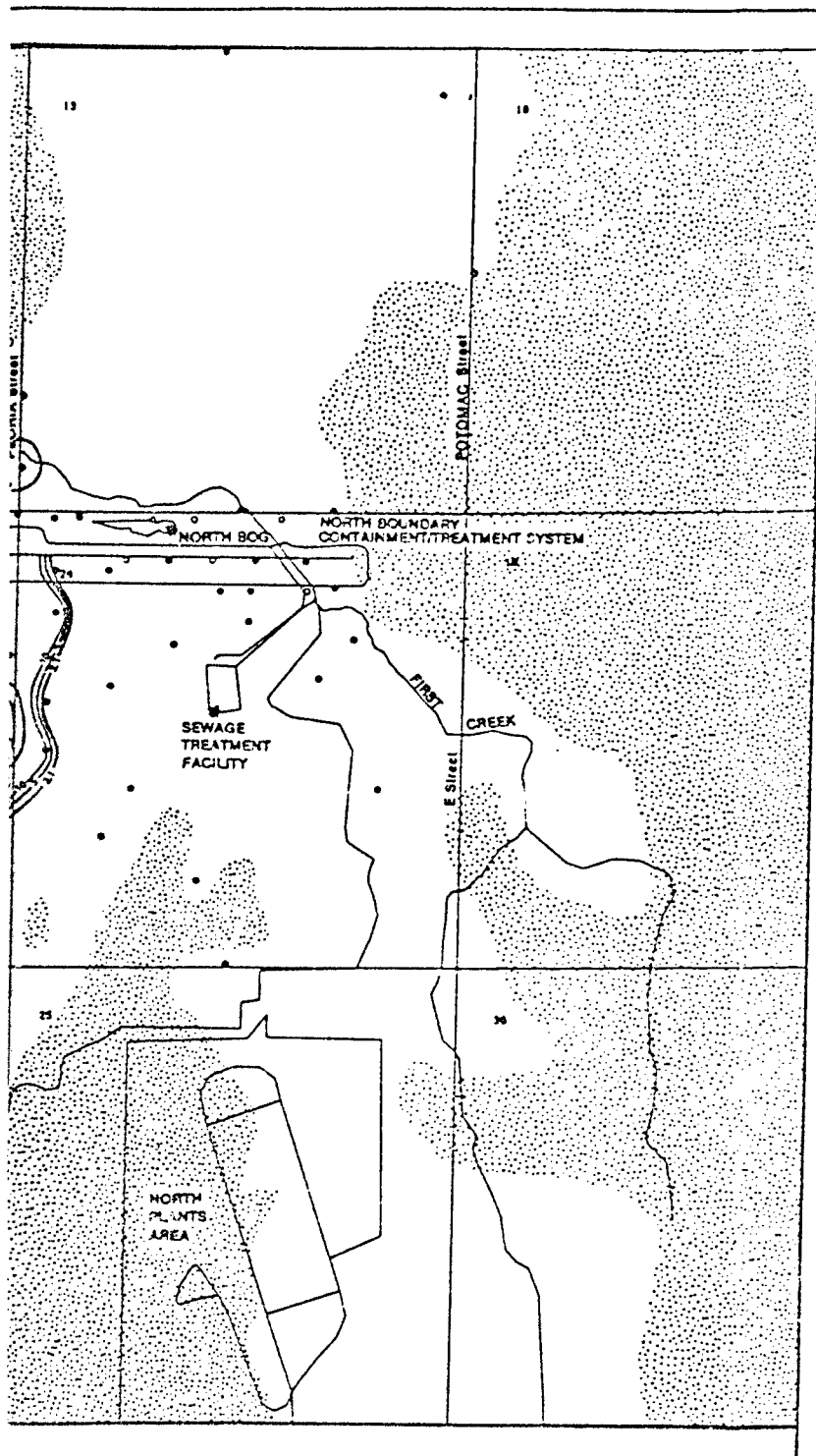


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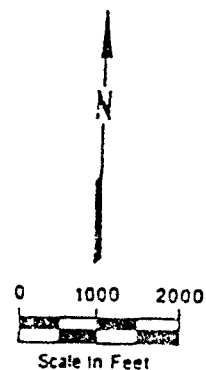
ire B-79B
 DICHLOROETHANE CONCENTRATION DISTRIBUTION, ug/l,
) QUARTER, FY87, ALLUVIAL AQUIFER



EXPLANATION

CONCENTRATIONS IN ug/l

- 1 — ISOCONCENTRATION LINE
- - - 1 - - - ISOCONCENTRATION LINE INFERRED
- NETWORK MONITORING WELL - SAMPLE NOT ANALYZED
- MONITORING WELL SAMPLED THIS QUARTER
- UNSATURATED ALLUVIUM



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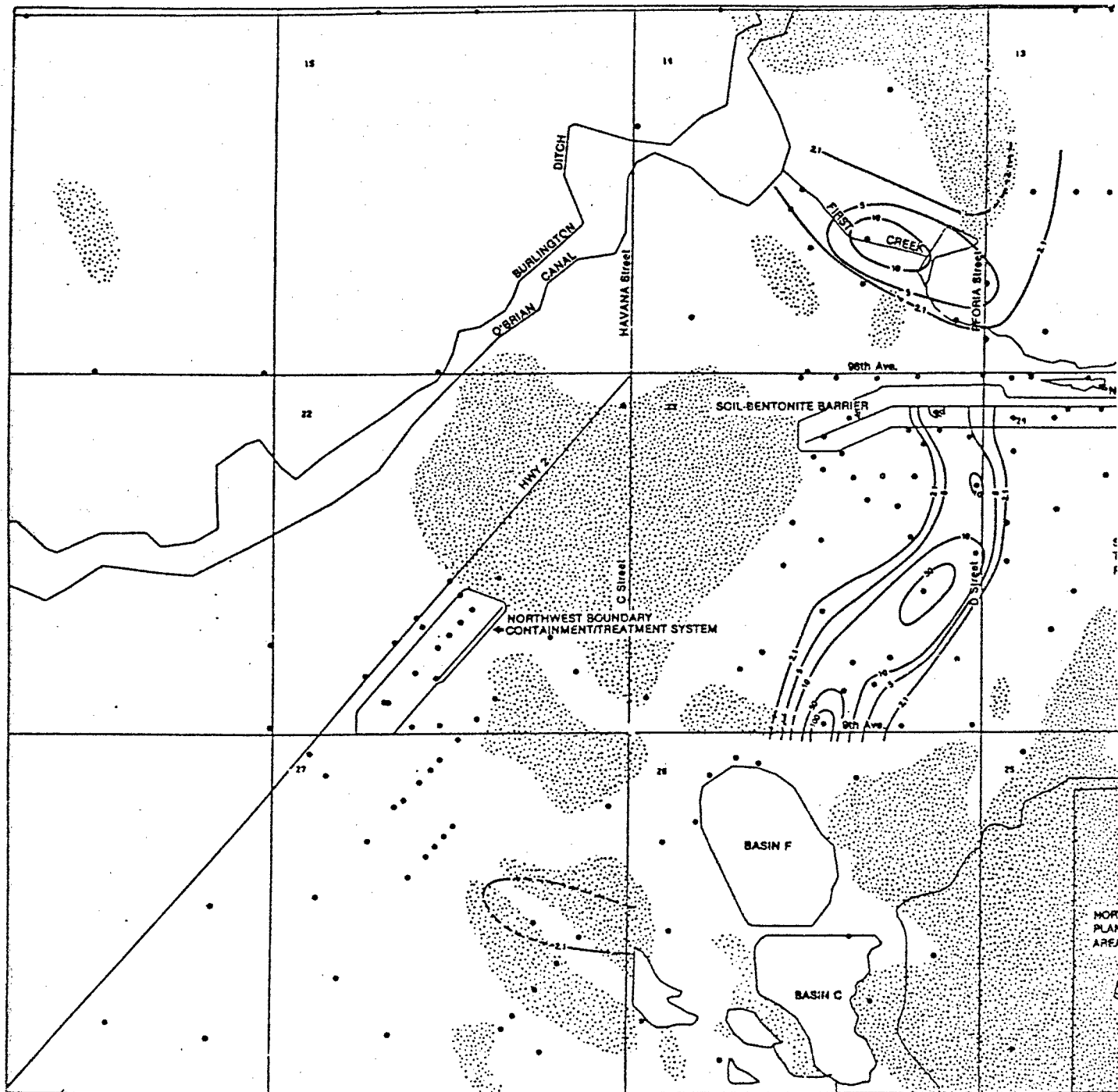


Figure B-79C
 2-DICHLOROETHANE CONCENTRATION DISTRIBUTION, ug/l,
 RD QUARTER, FY87, ALLUVIAL AQUIFER

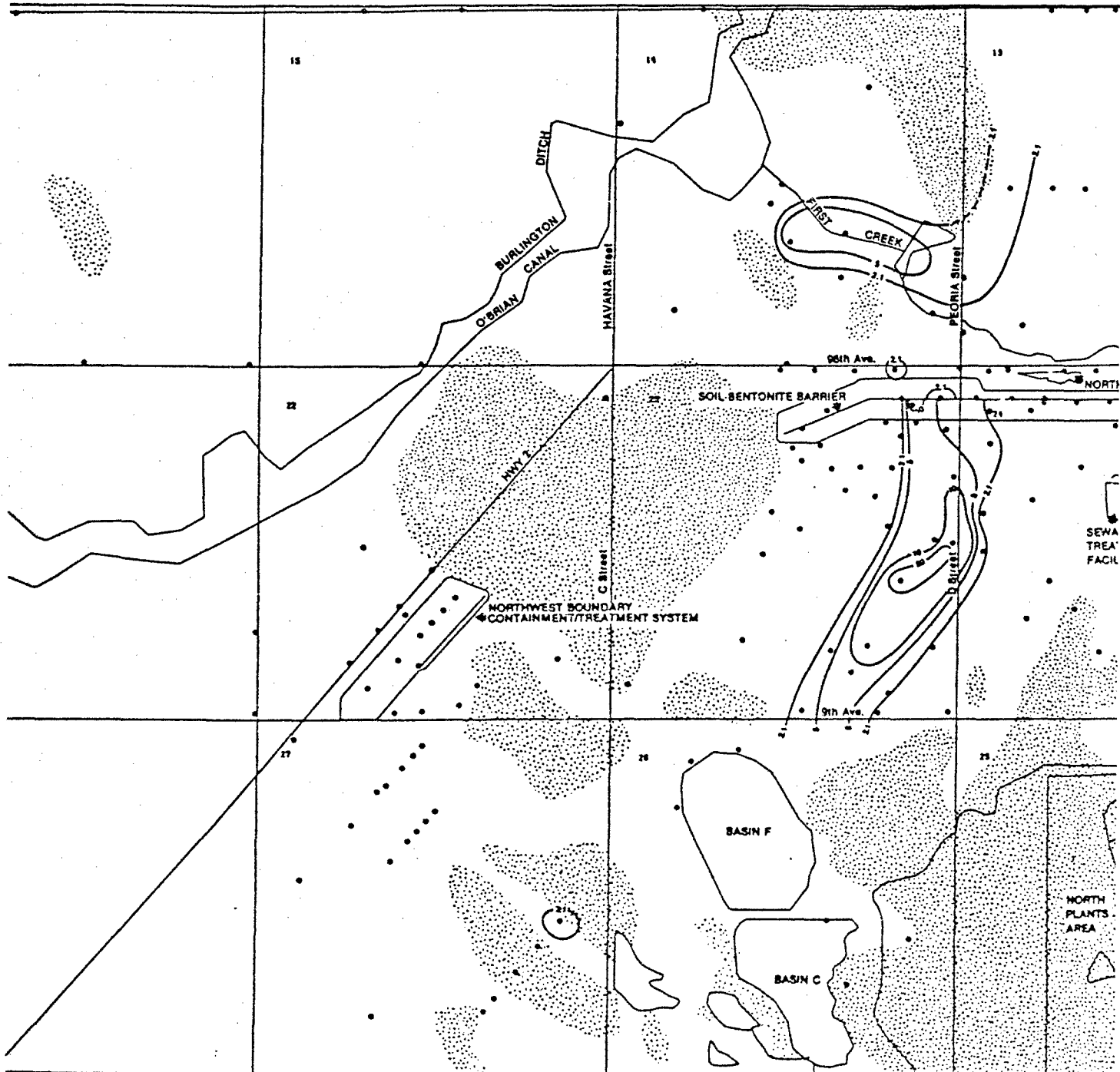


Figure B-79D
 DICHLOROETHANE CONCENTRATION DISTRIBUTION, ug/l,
 I QUARTER, FY87, ALLUVIAL AQUIFER

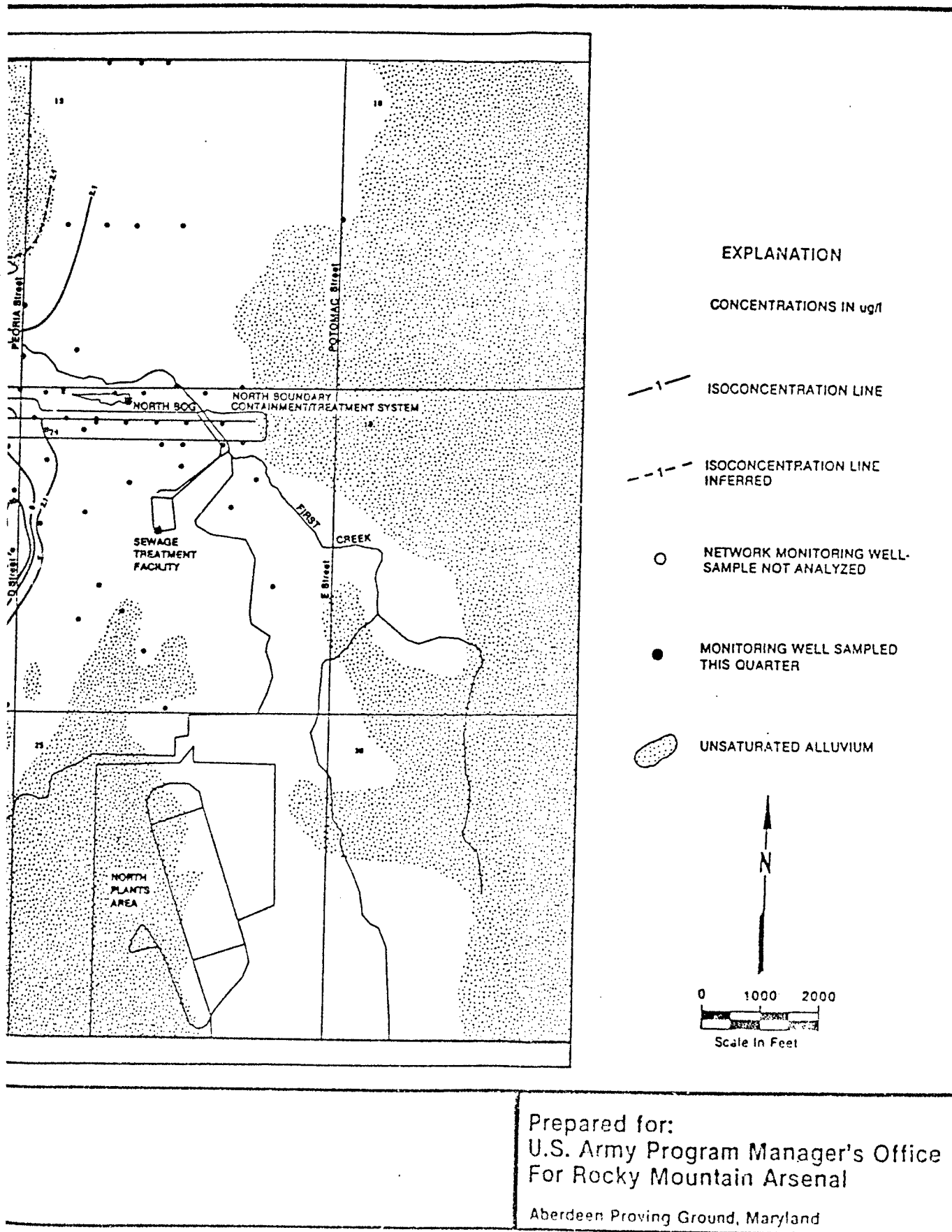
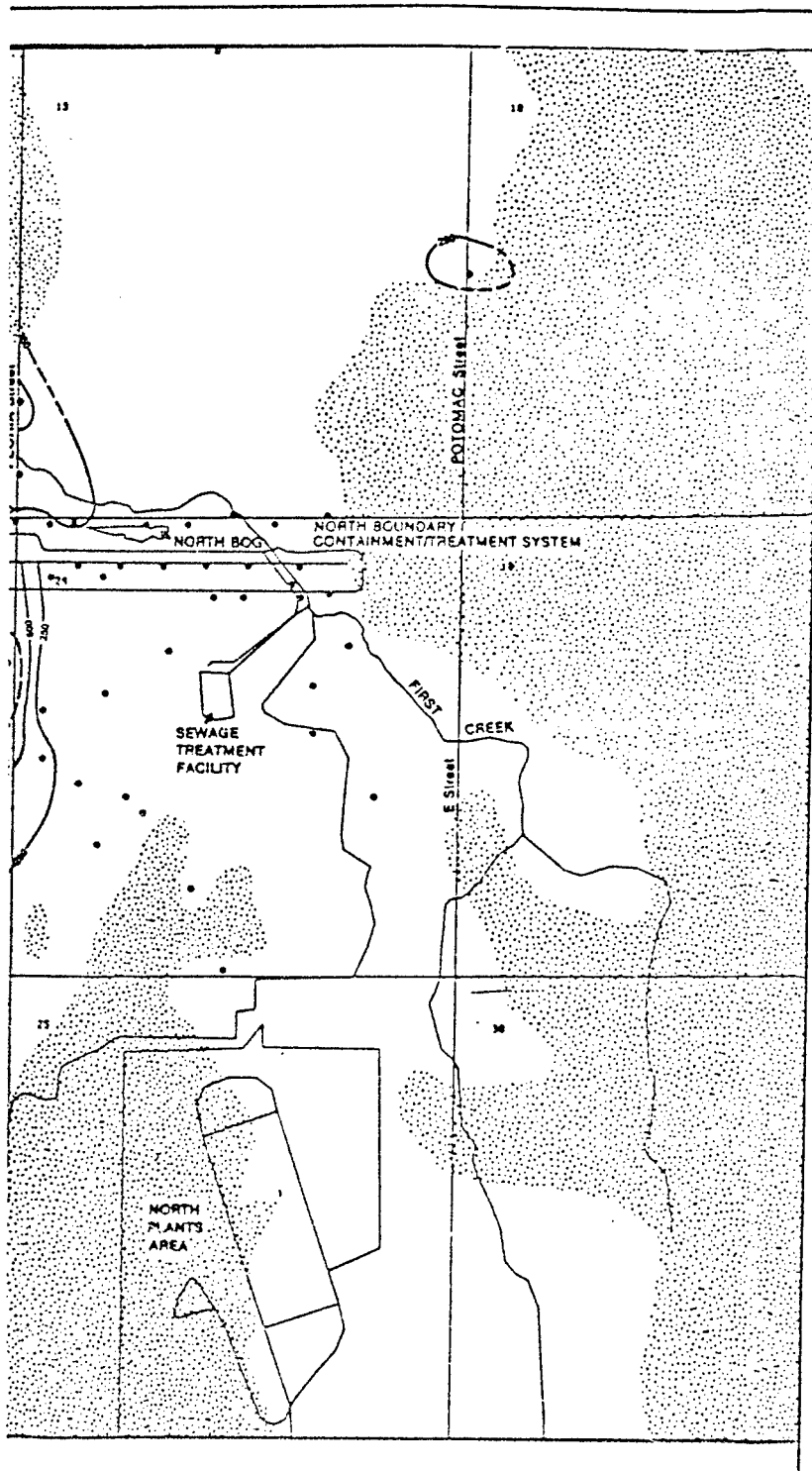




Figure B-80A
 FLUORIDE CONCENTRATION DISTRIBUTION, mg/l,
 4TH QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN (mg/l)

— ISOCONCENTRATION LINE

- - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL.
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

UNSATURATED ALLUVIUM



0 1000 2000



Scale In Feet

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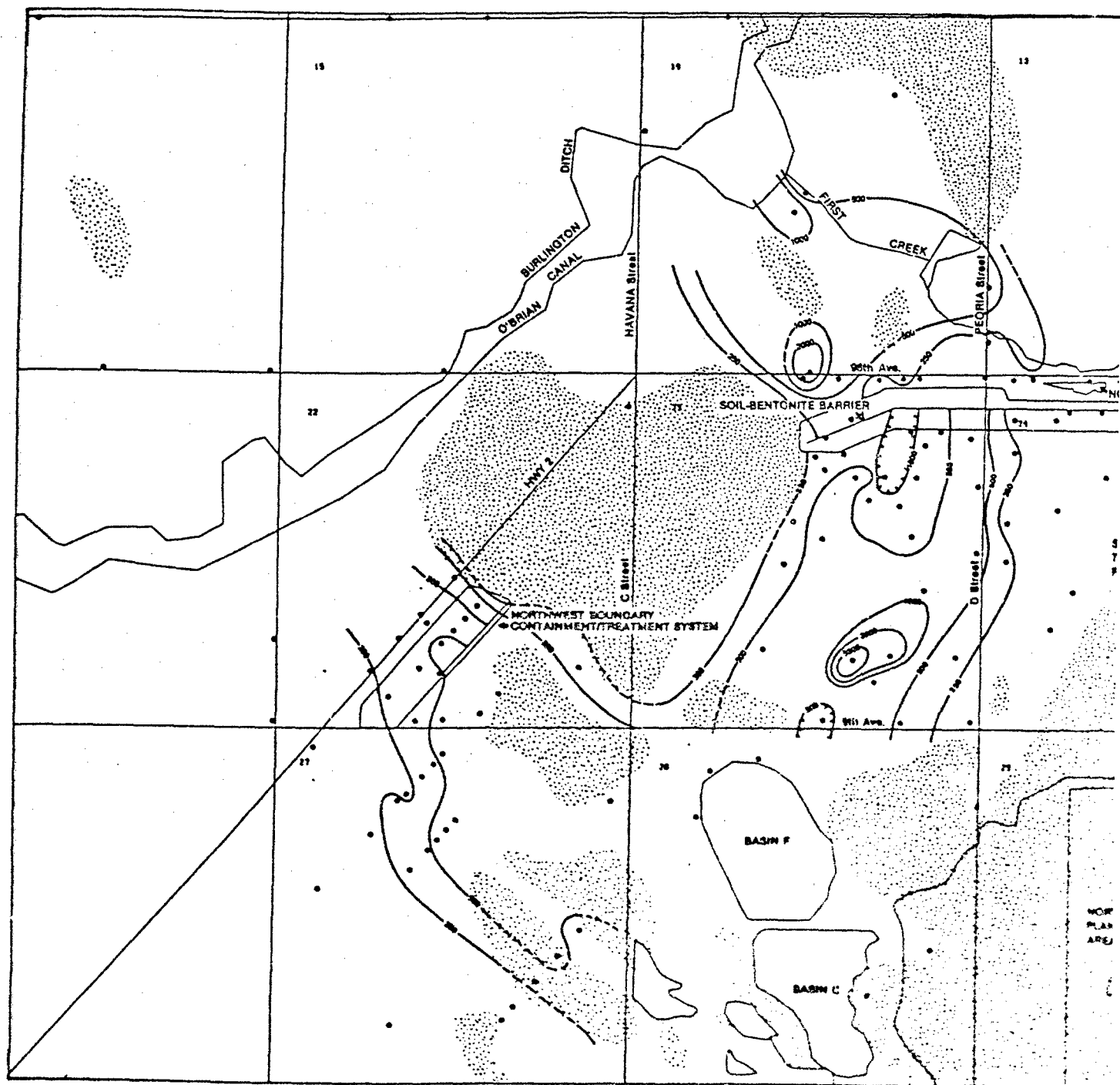
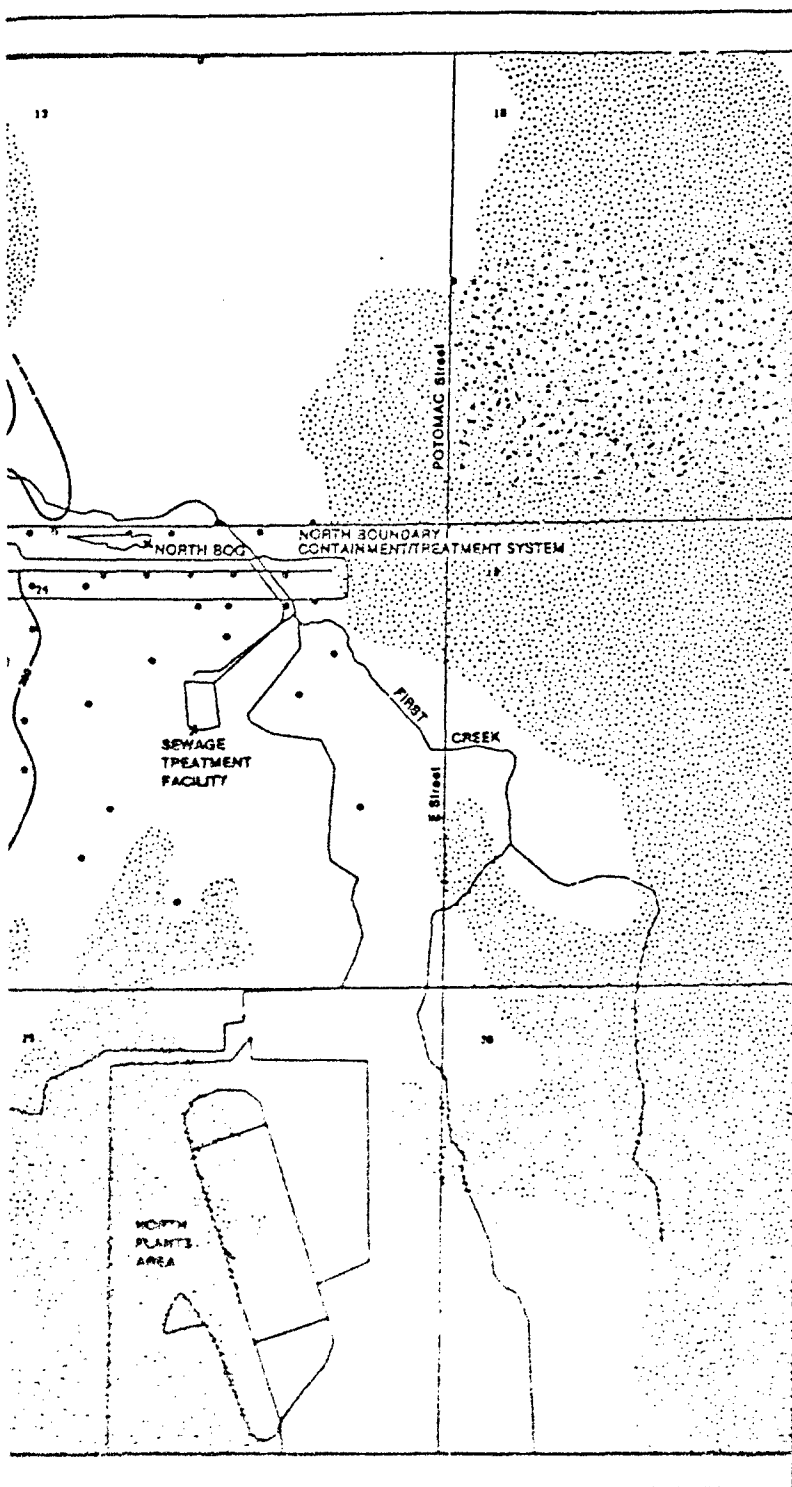


Figure B-80B
 FLUORIDE CONCENTRATION DISTRIBUTION, mg/l,
 ND QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN (mg/l)

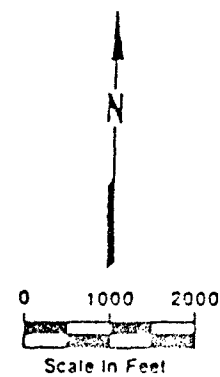
— ISOCONCENTRATION LINE

- - - ISOCONCENTRATION LINE INFERRED

○ NETWORK MONITORING WELL - SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED THIS QUARTER

UNSATURATED ALLUVIUM



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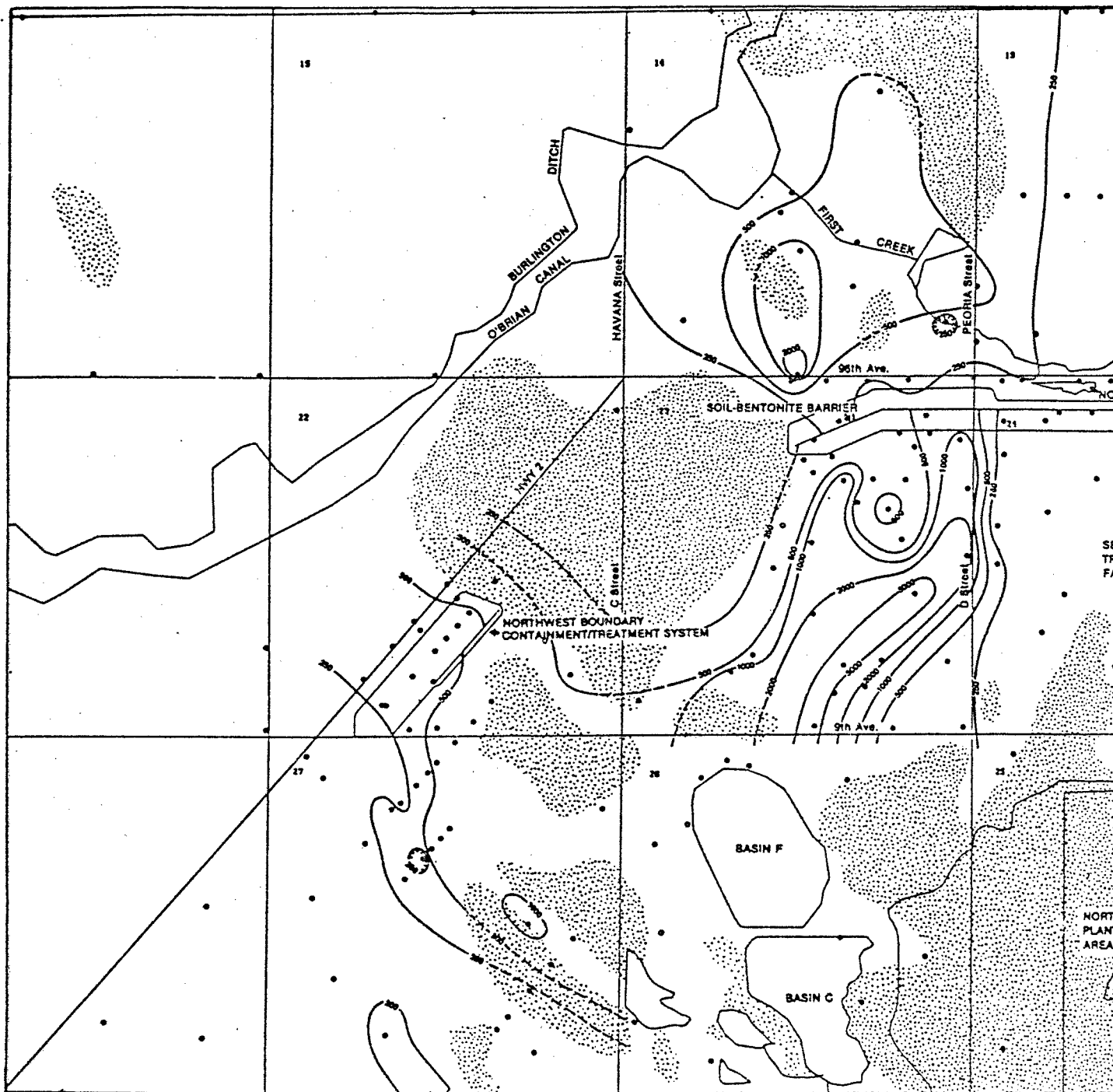
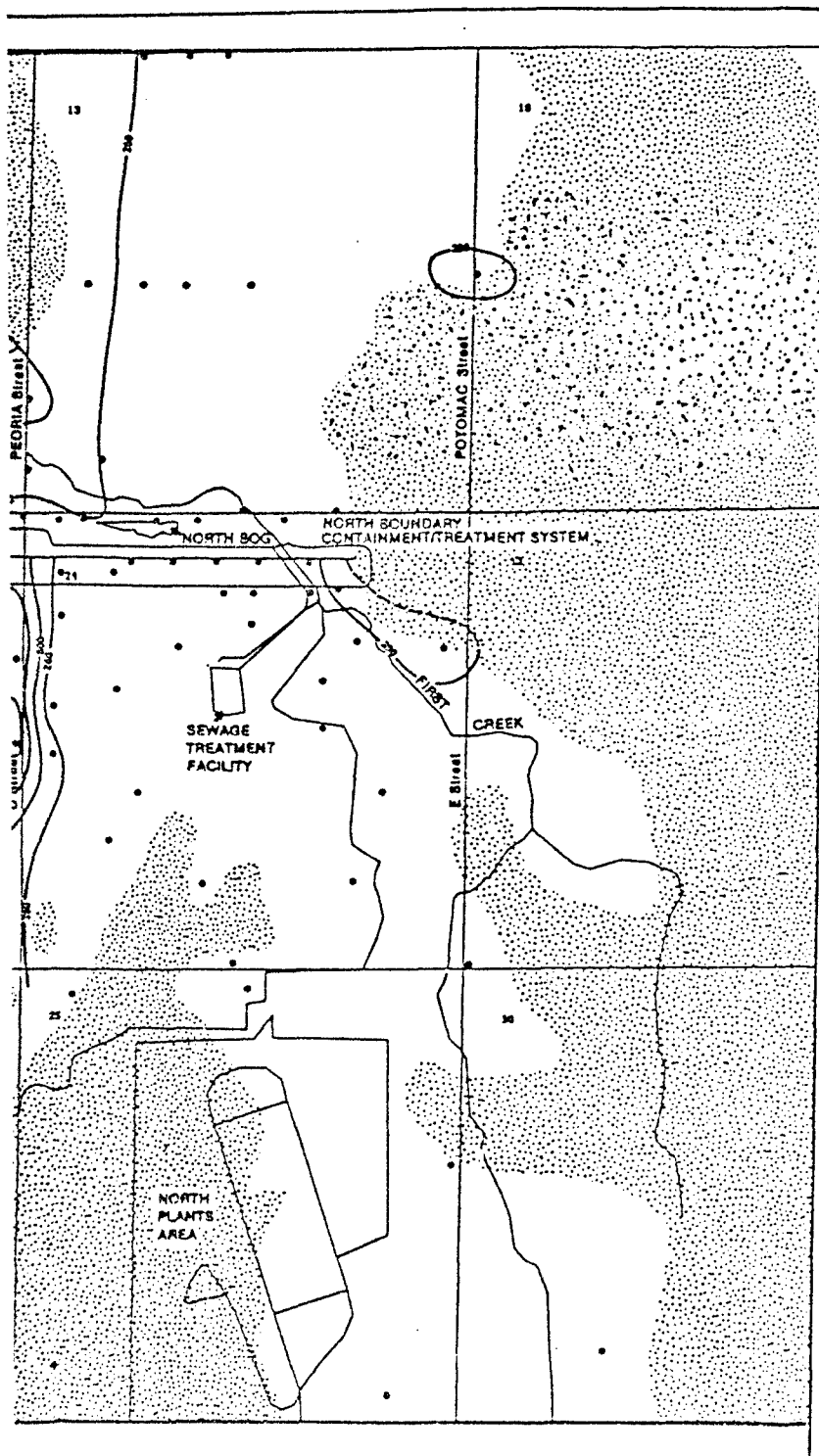


Figure B-80 C
 CHLORIDE CONCENTRATION DISTRIBUTION, mg/l,
 RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN (mg/l)

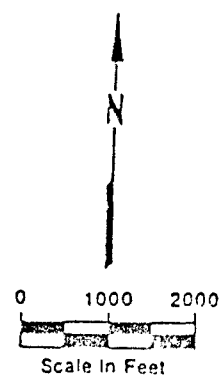
— 1 — ISOCONCENTRATION LINE

- - - 1 - - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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Aberdeen Proving Ground, Maryland

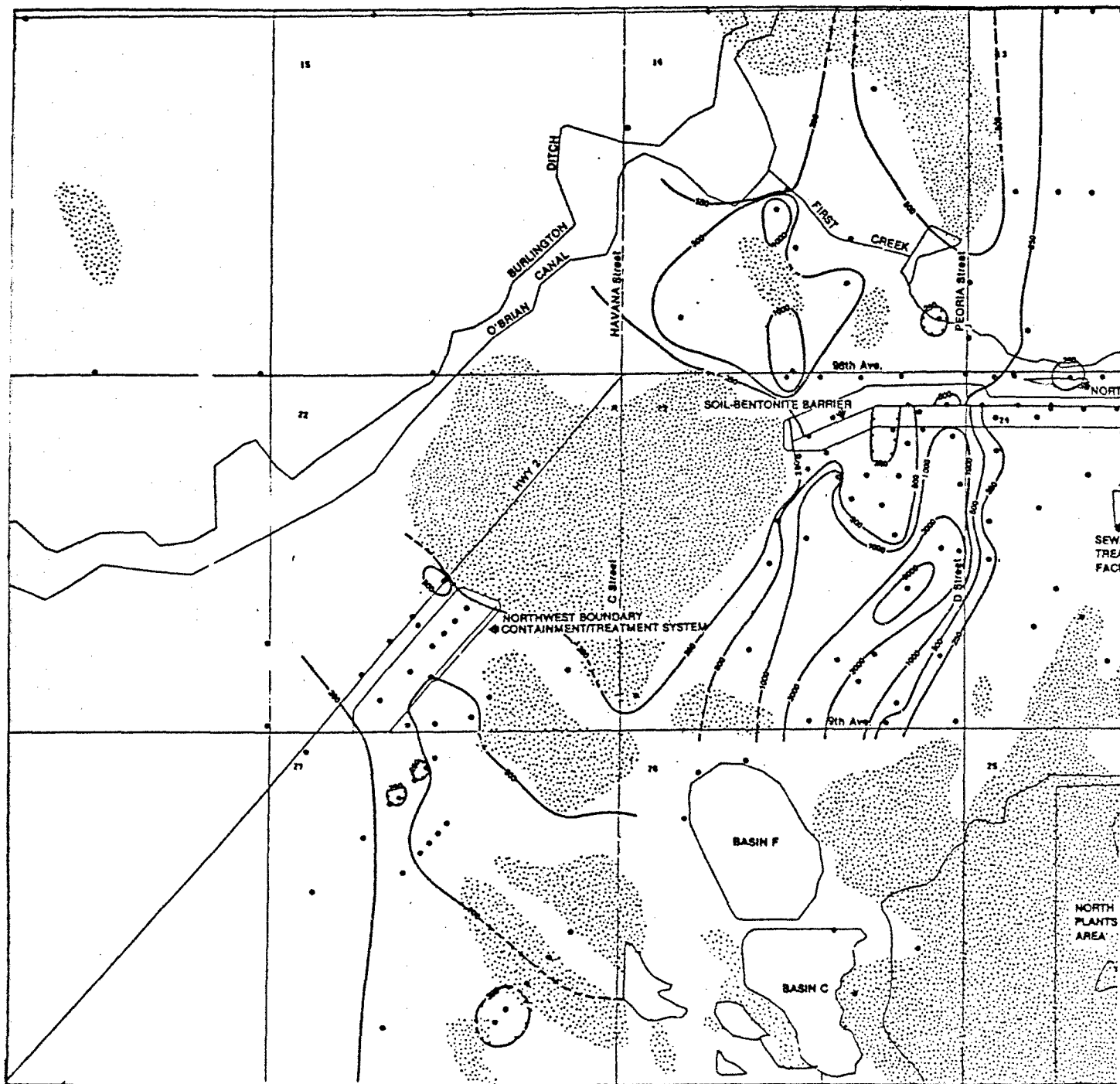
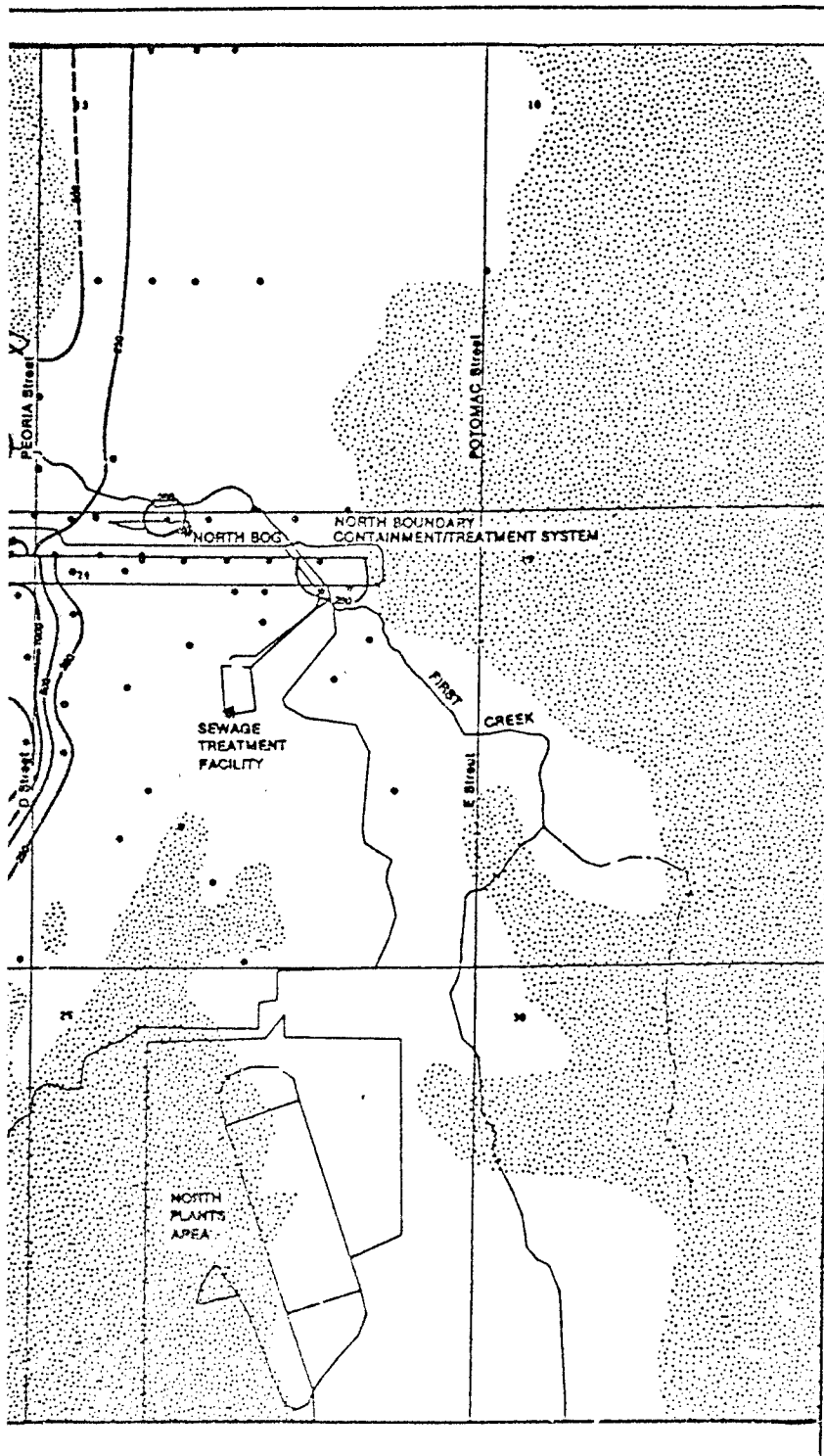


Figure B-80 D
 Chloride Concentration Distribution, mg/l,
 H Quarter, FY87, Alluvial Aquifer

URCE:ESE,1988



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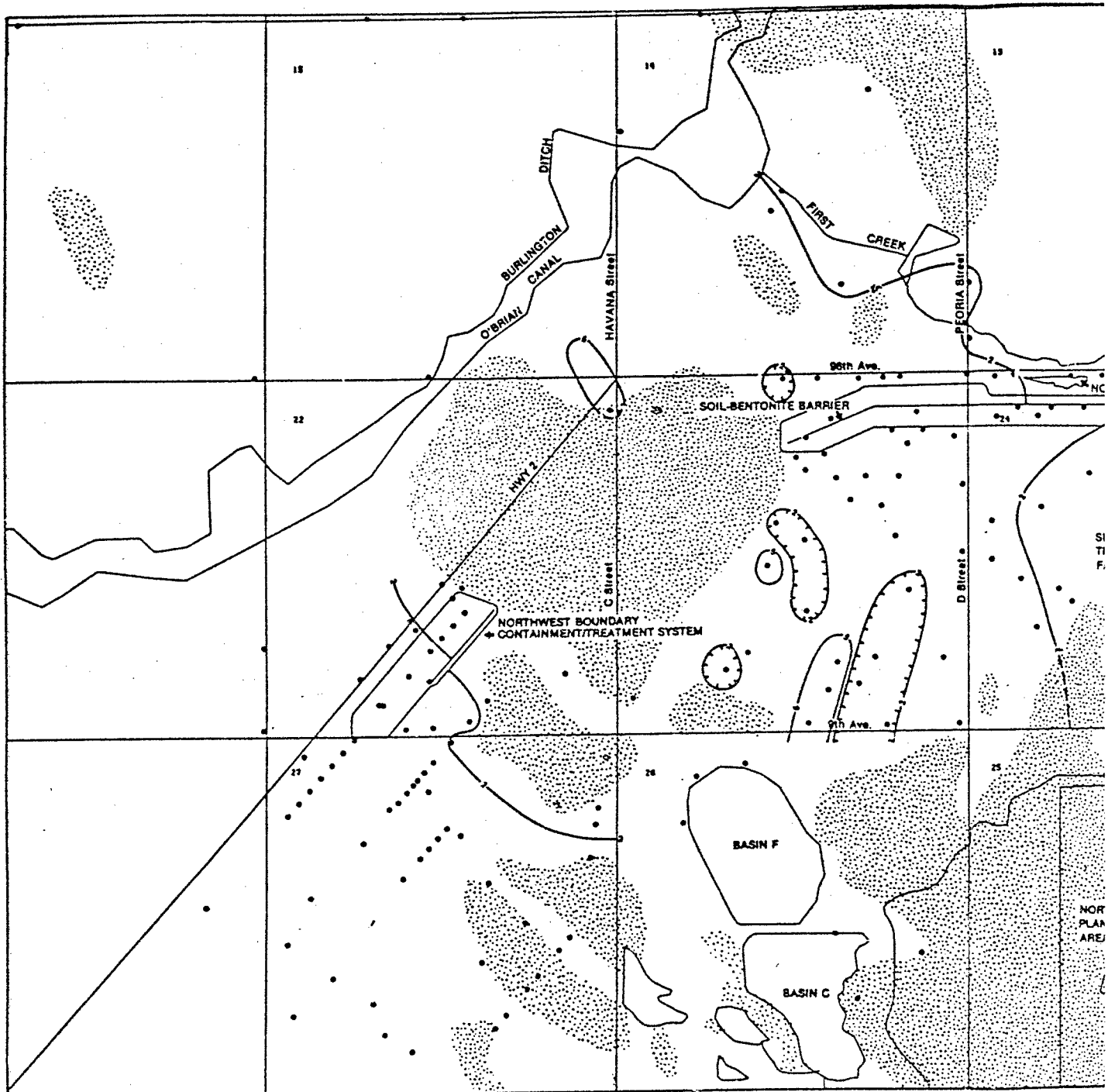
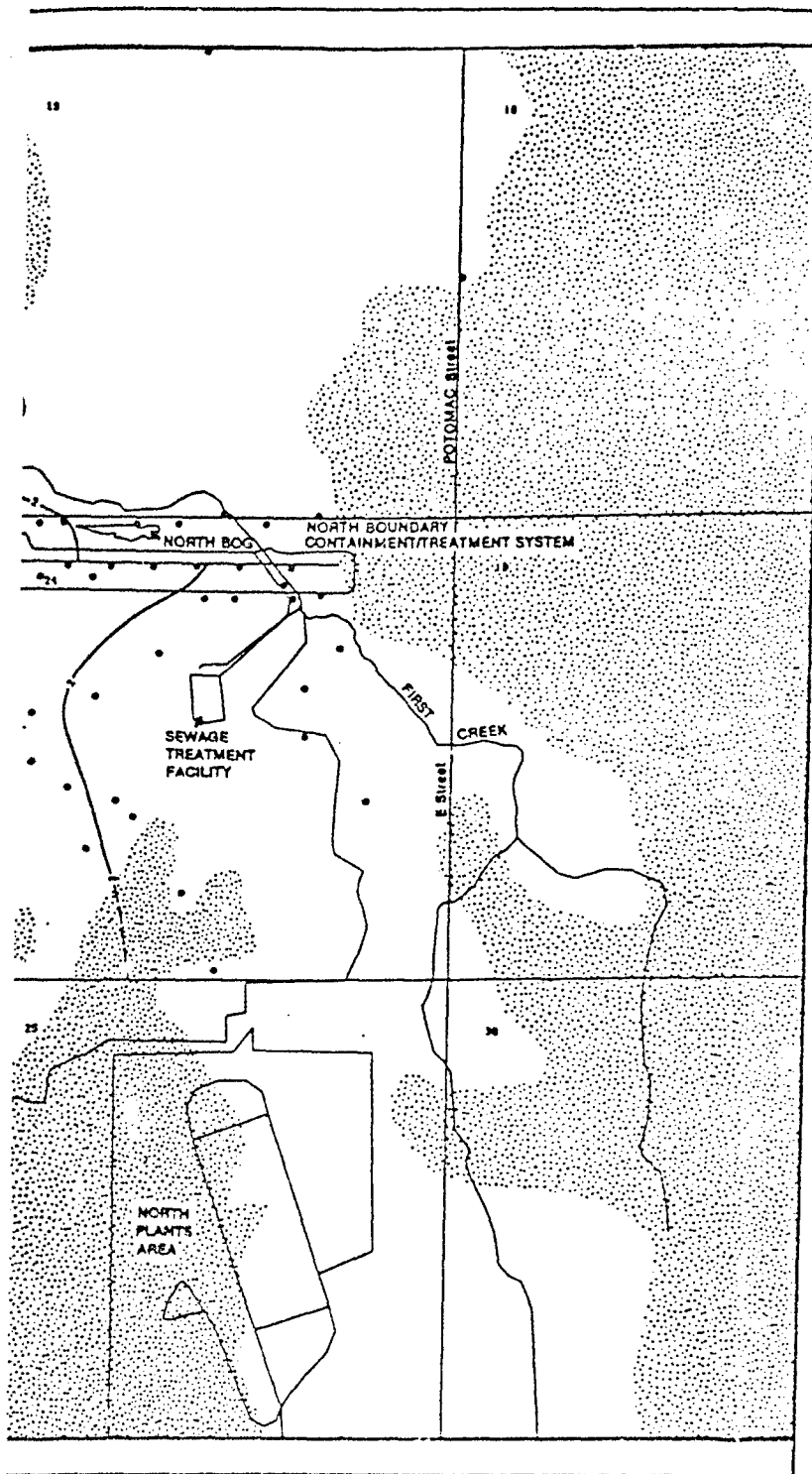


Figure B-81A
 FLUORIDE CONCENTRATION DISTRIBUTION, mg/l,
 ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN (mg/l)

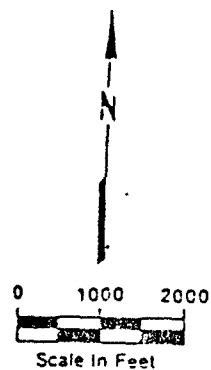
— 1 — ISOCONCENTRATION LINE

- - - 1 - - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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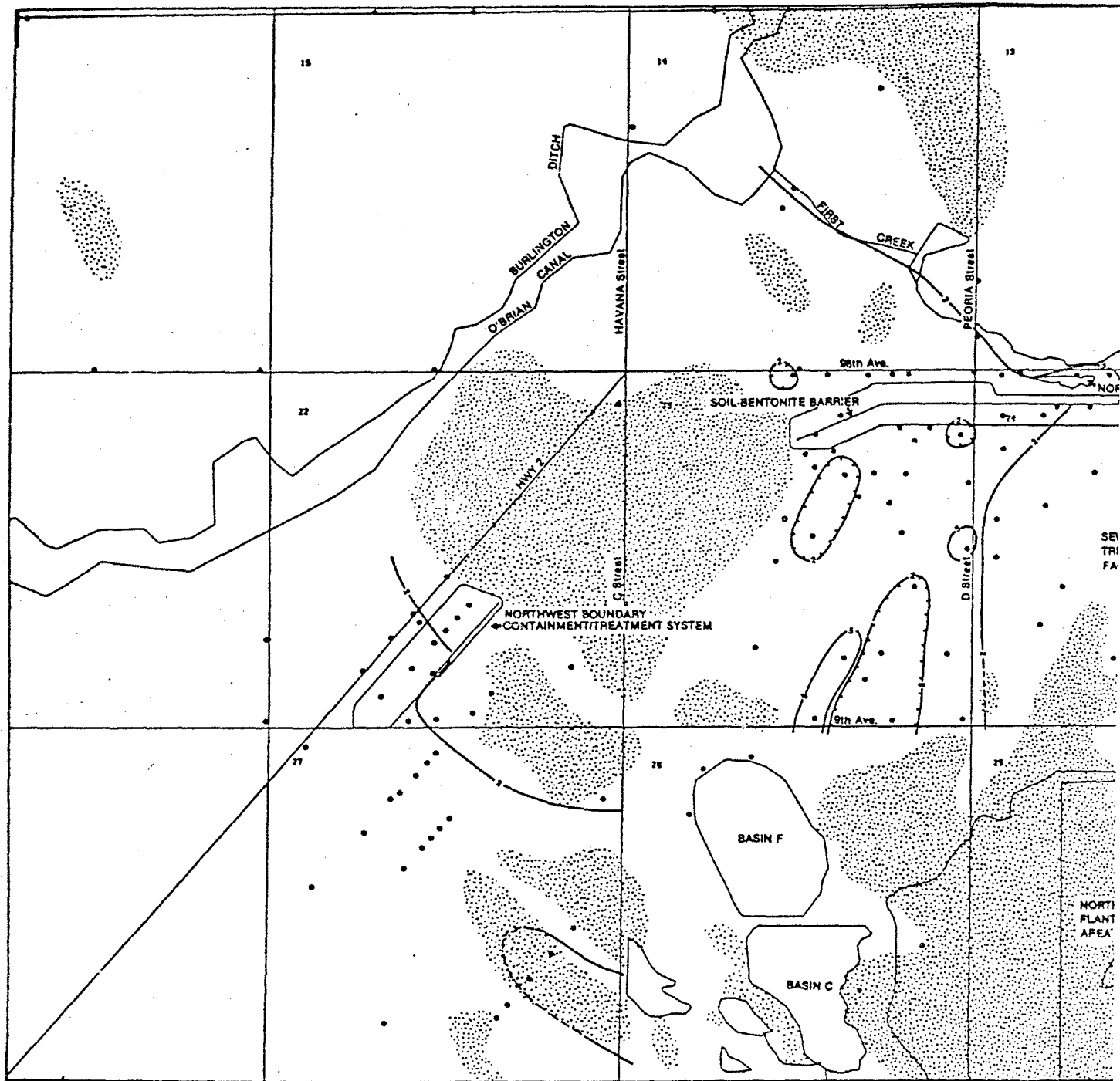
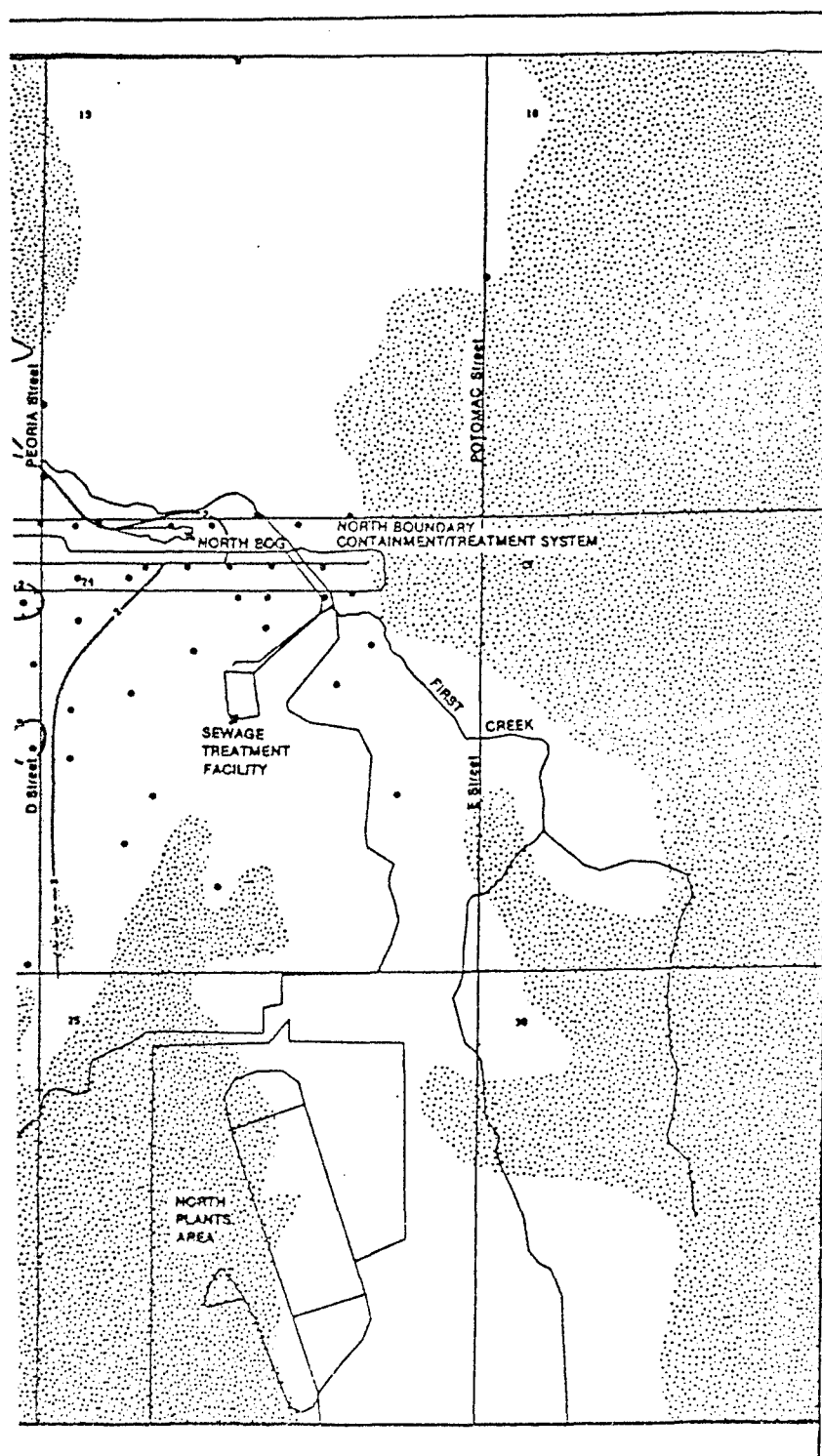







Figure B-81 B
 FLUORIDE CONCENTRATION DISTRIBUTION, mg/l,
 ND QUARTER, FY87, ALLUVIAL AQUIFER

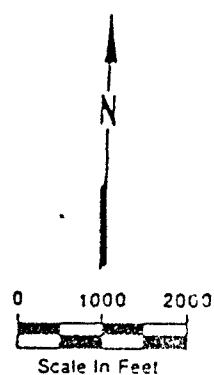
SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN (mg/l)

-  ISOCONCENTRATION LINE
-  ISOCONCENTRATION LINE INFERRED
-  NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED
-  MONITORING WELL SAMPLED
THIS QUARTER
-  UNSATURATED ALLUVIUM



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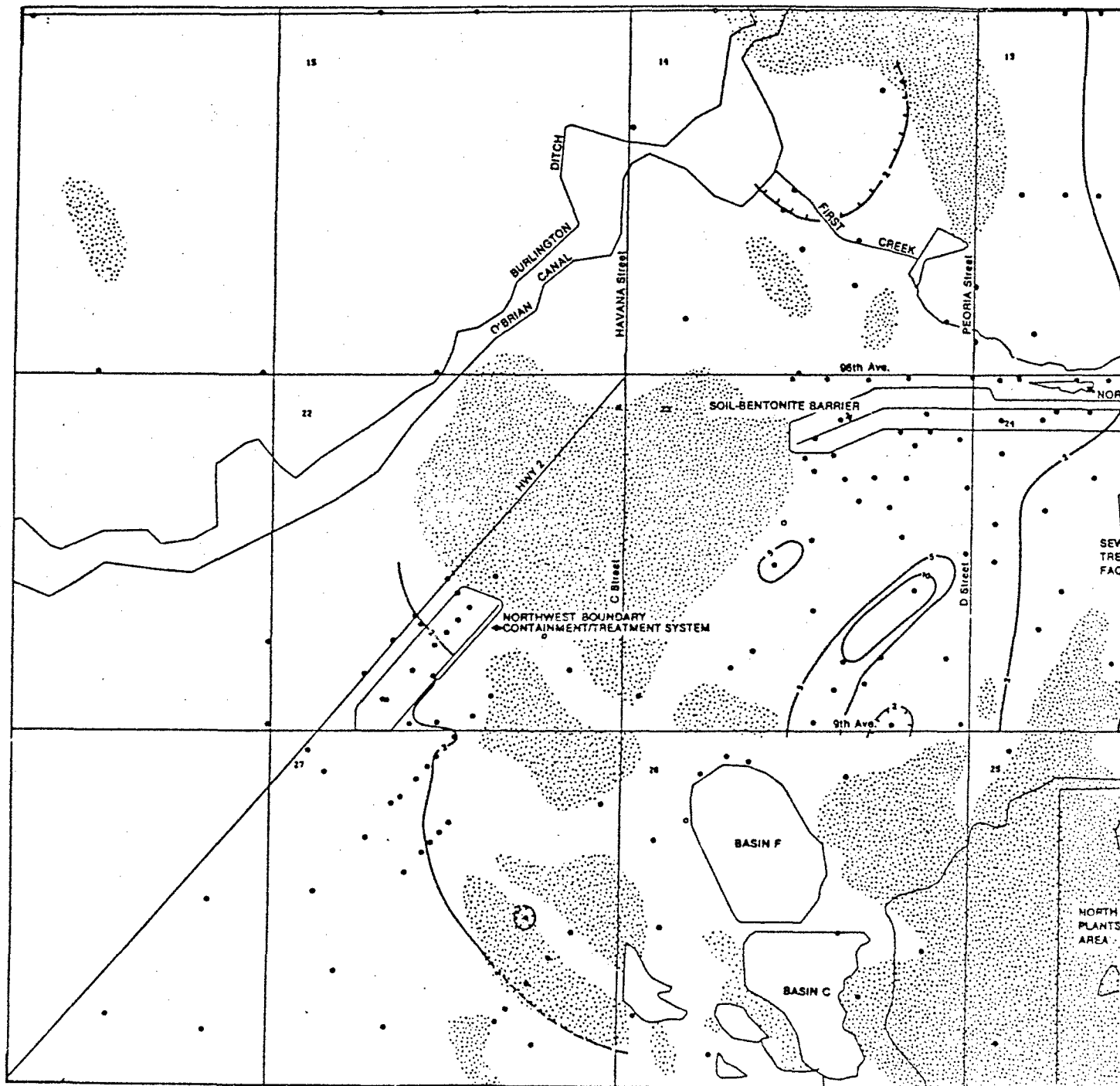
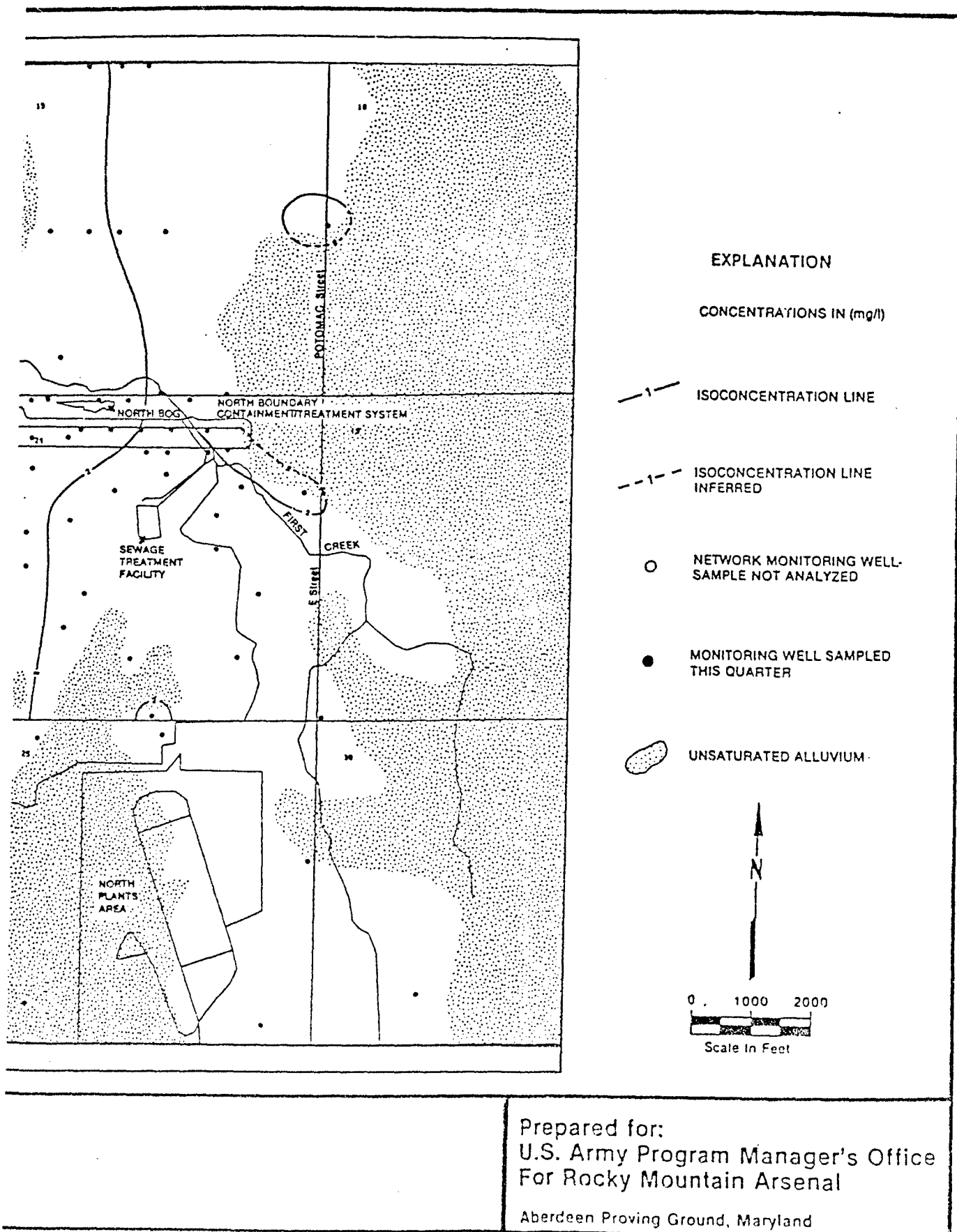


Figure B-81C
 FLUORIDE CONCENTRATION DISTRIBUTION, mg/l,
 4th QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



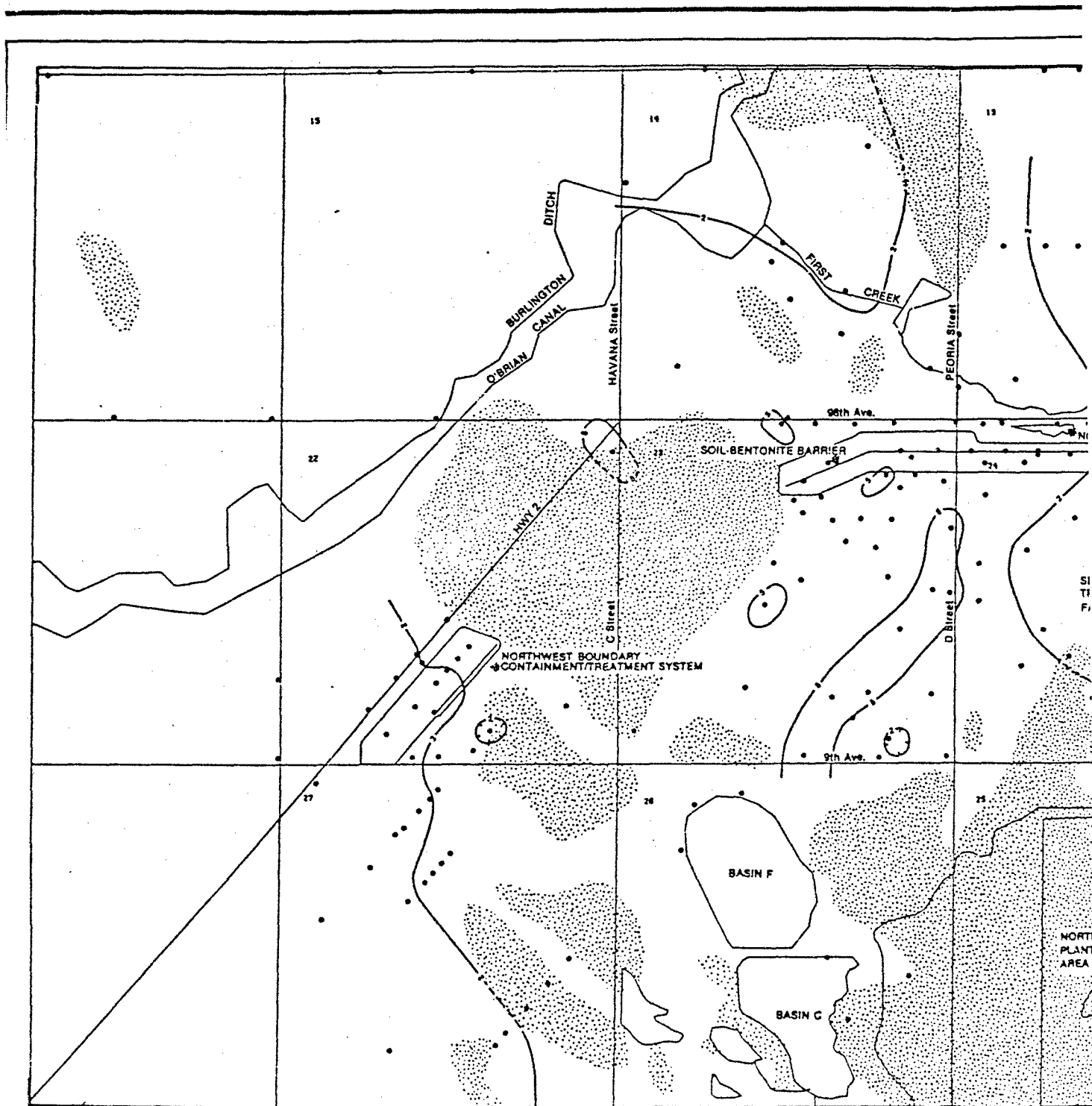
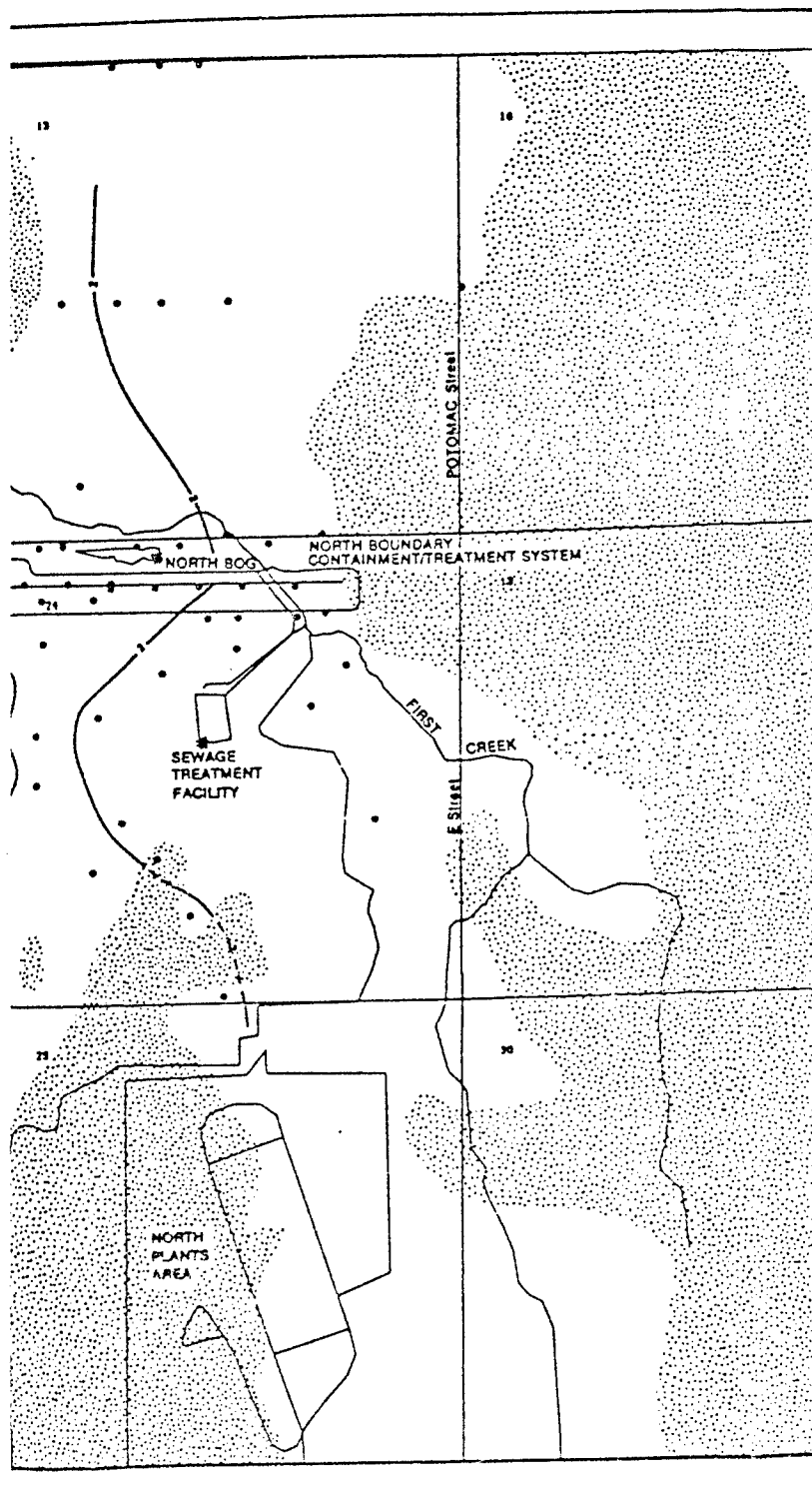







Figure B-81D
 FLUORIDE CONCENTRATION DISTRIBUTION, mg/l,
 NORTH QUARTER, FY87, ALLUVIAL AQUIFER

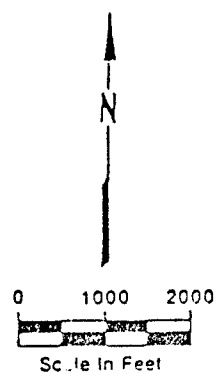
SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN (mg/l)

-  ISOCONCENTRATION LINE
-  ISOCONCENTRATION LINE INFERRED
-  NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED
-  MONITORING WELL SAMPLED
THIS QUARTER
-  UNSATURATED ALLUVIUM



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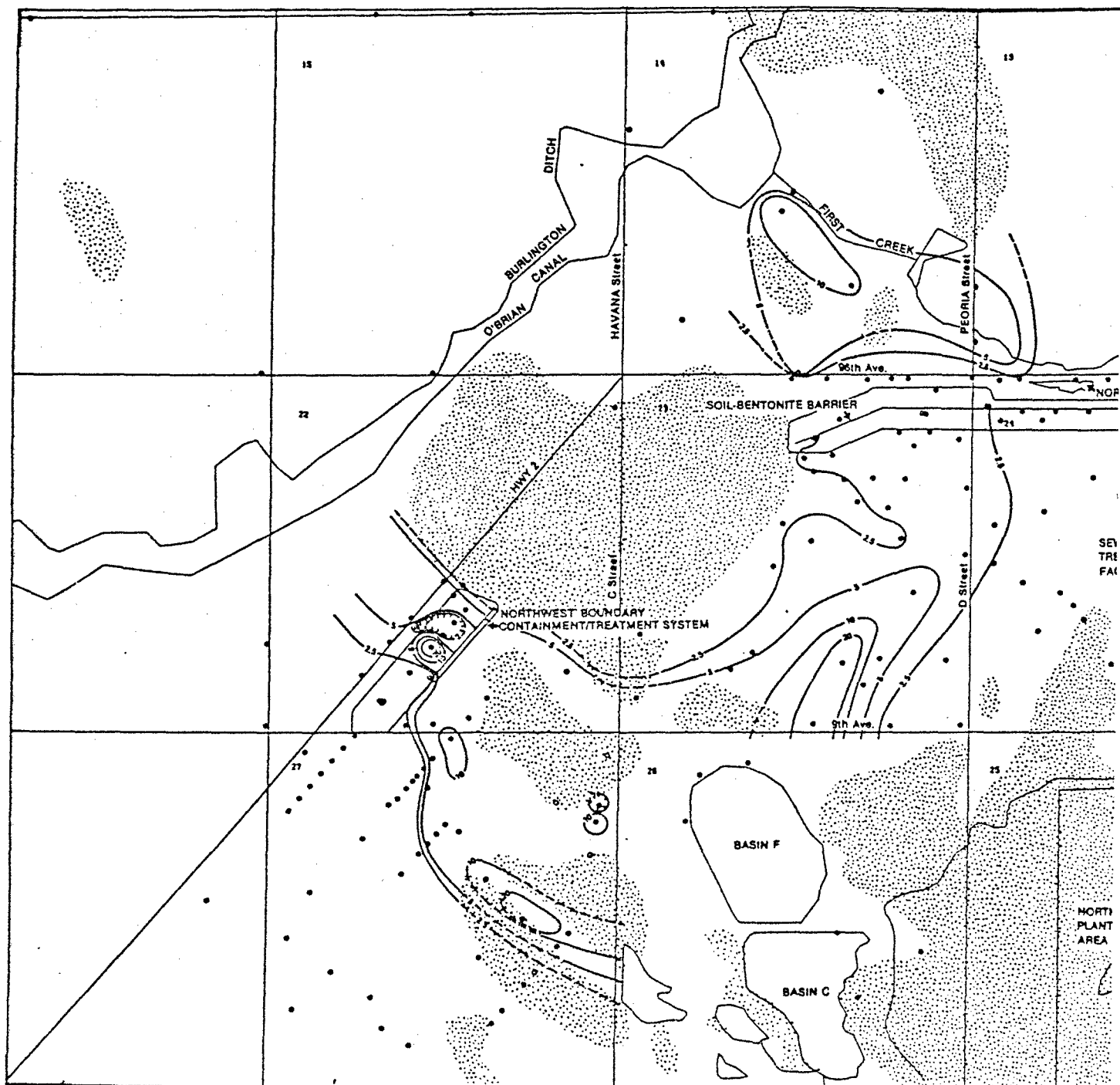
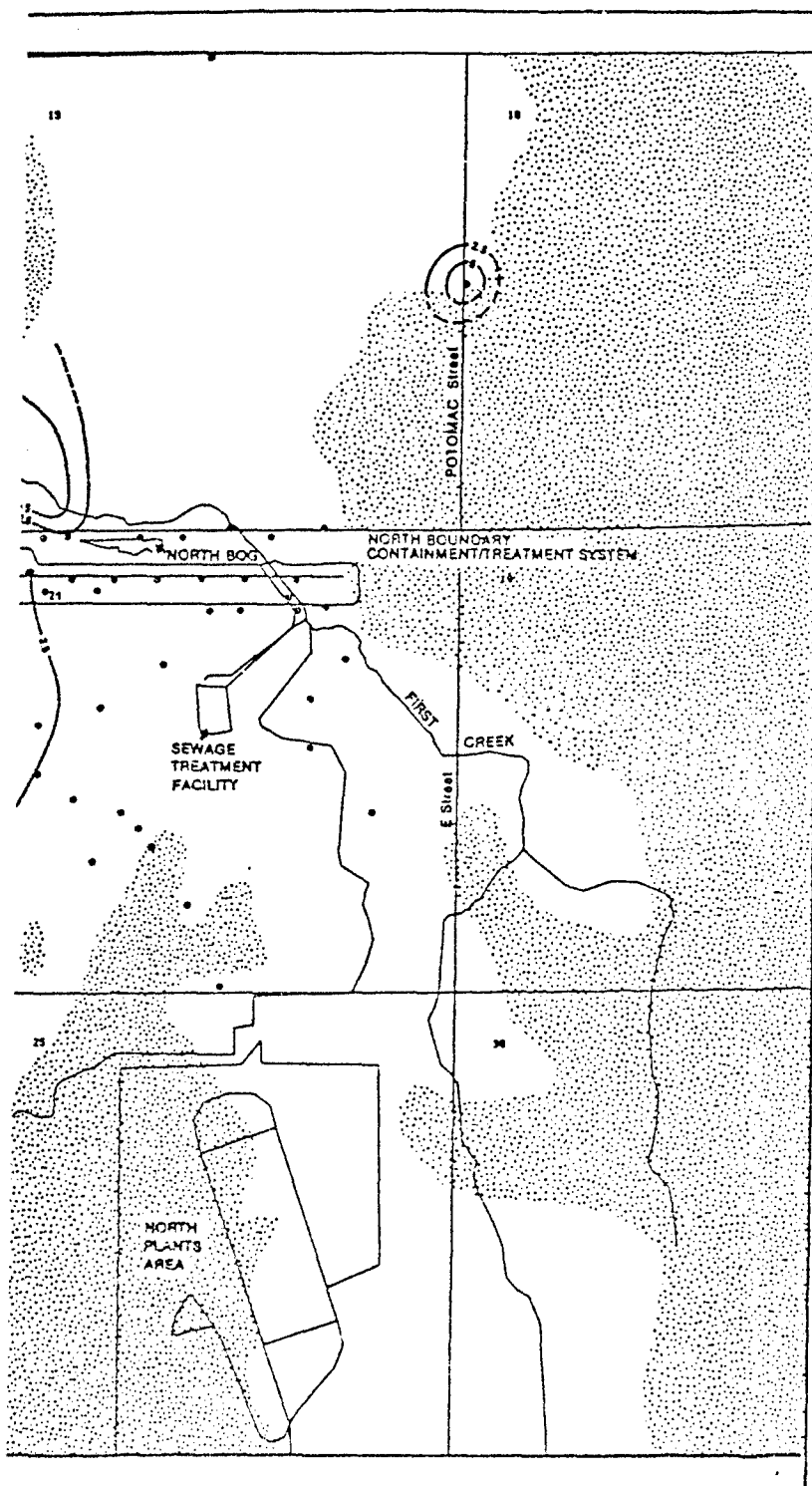


Figure B-82A
 ARSENIC CONCENTRATION DISTRIBUTION, ug/l,
 1ST QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

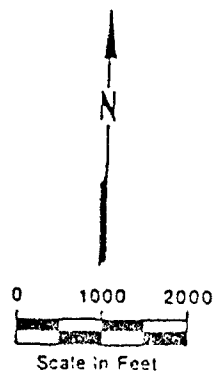
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- - - 1 - - - ISOCONCENTRATION LINE
INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

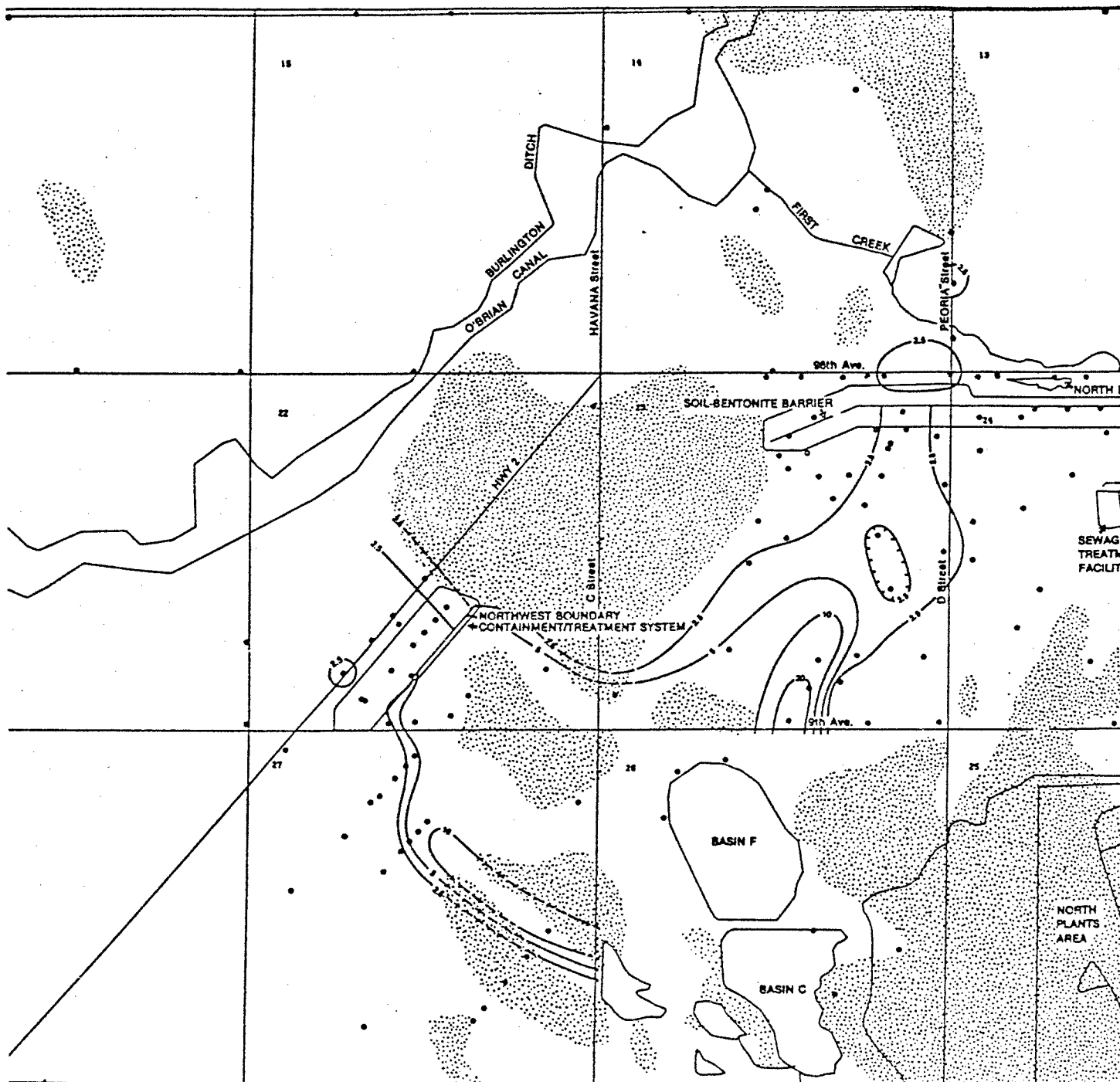
● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



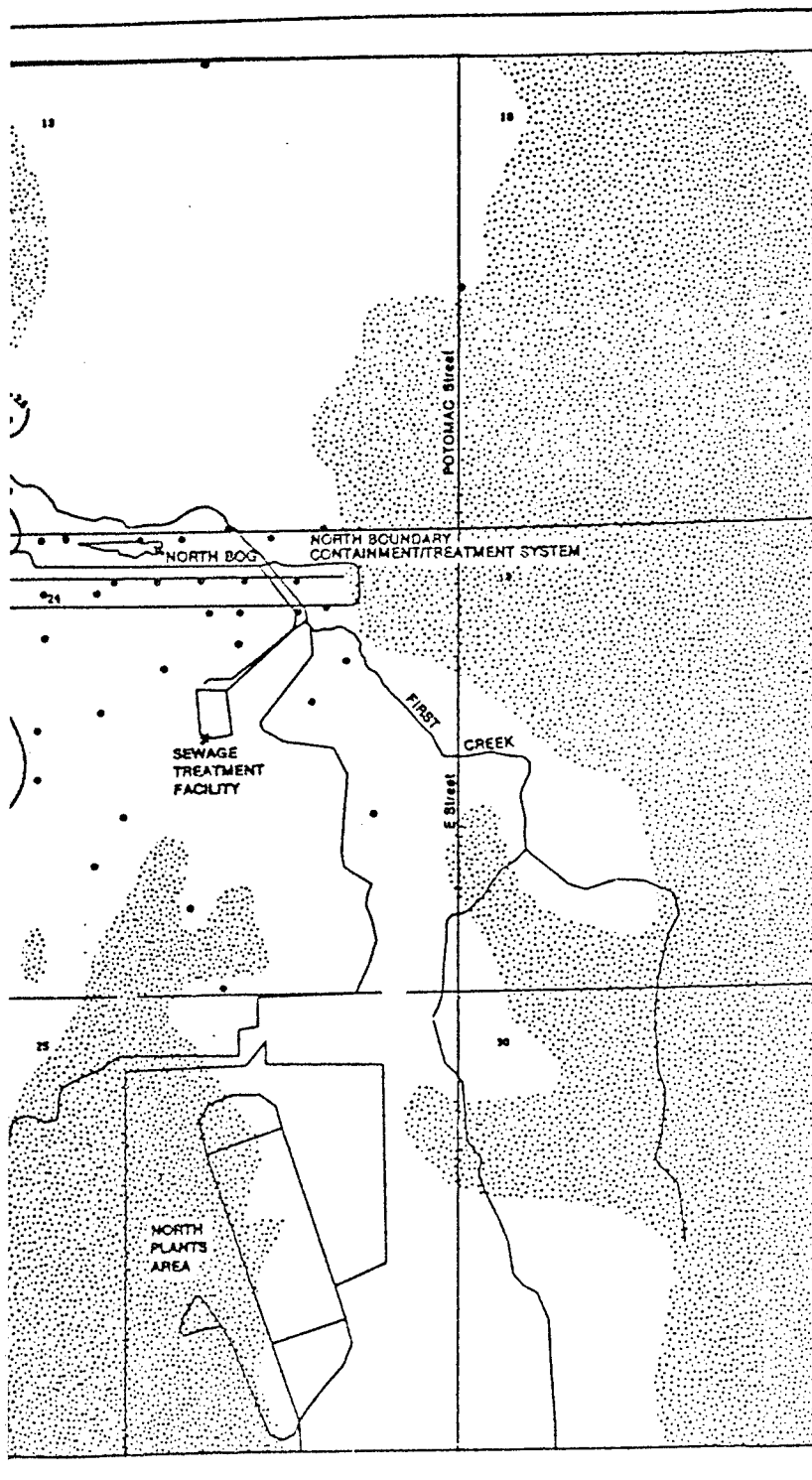
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Aberdeen Proving Ground, Maryland



re B-82 B
 ENIC CONCENTRATION DISTRIBUTION, ug/l,
 QUARTER, FY87, ALLUVIAL AQUIFER

DE:ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

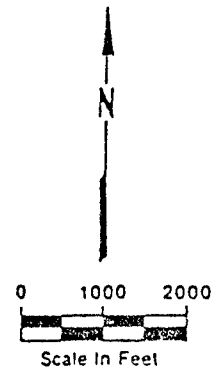
— 1 — ISOCONCENTRATION LINE

- - - 1 - - - ISOCONCENTRATION LINE INFERRED

○ NETWORK MONITORING WELL-
SAMPLE NOT ANALYZED

● MONITORING WELL SAMPLED
THIS QUARTER

○ UNSATURATED ALLUVIUM



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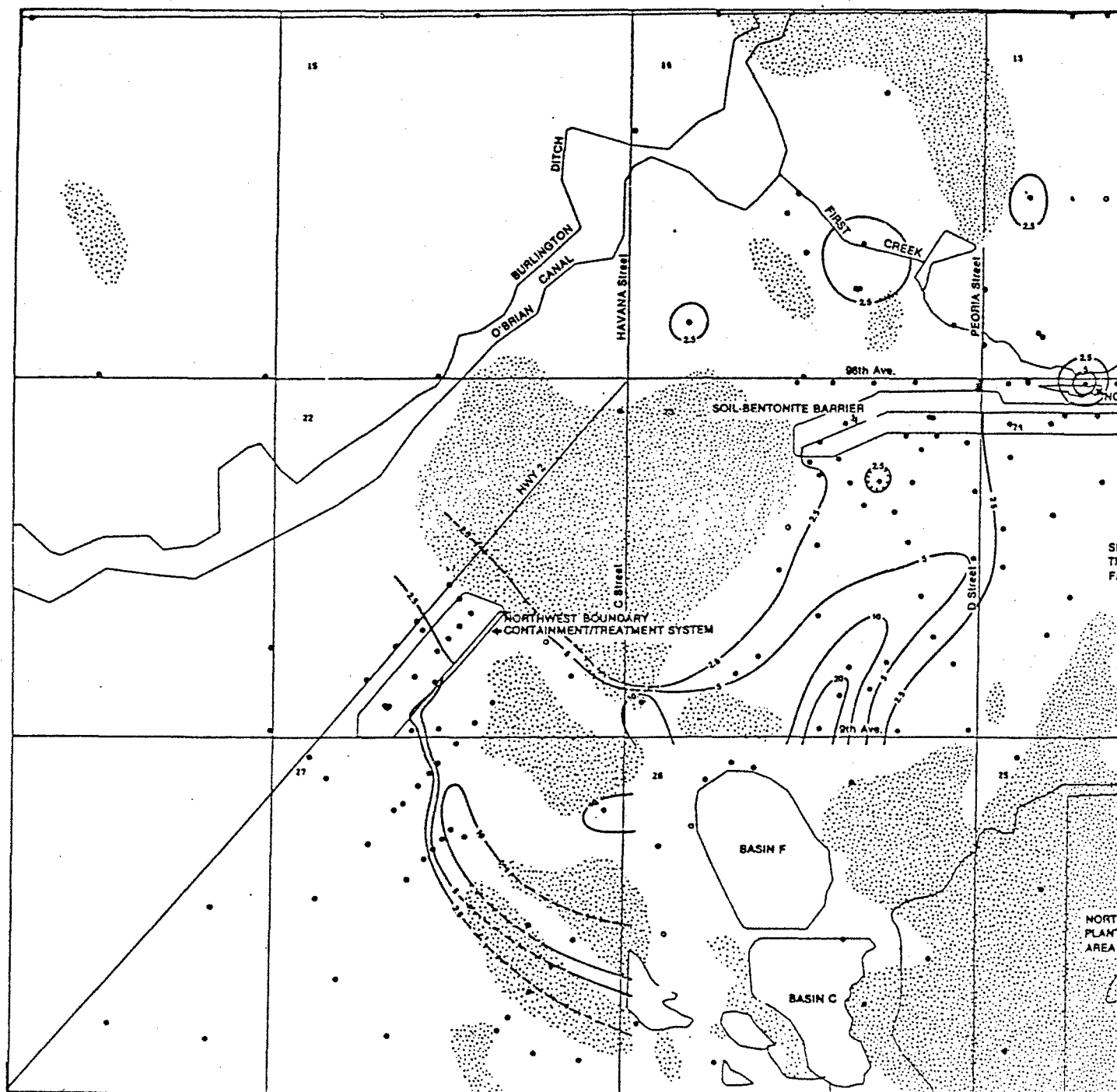
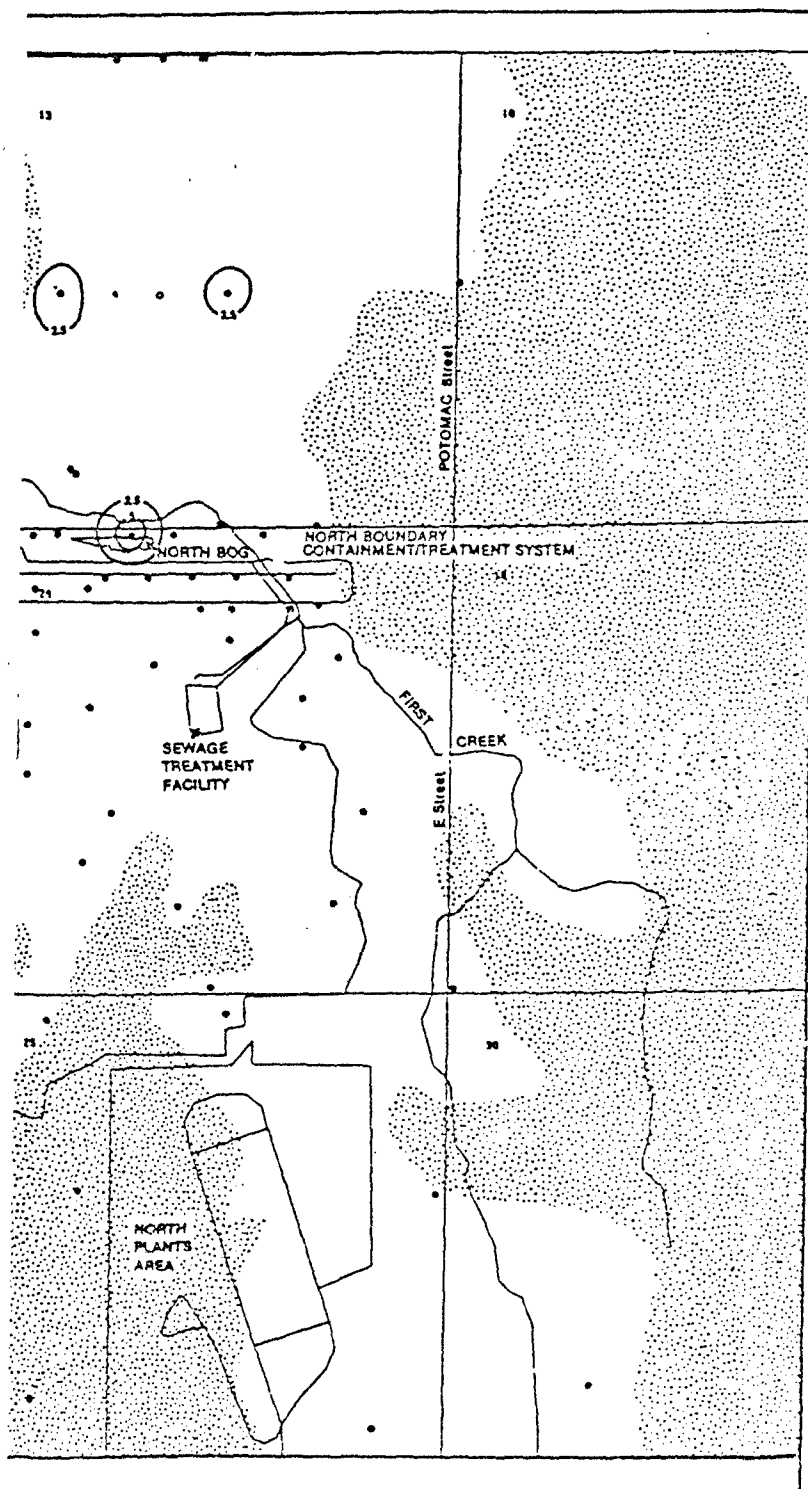


Figure B-82 C
 ARSENIC CONCENTRATION DISTRIBUTION, ug/l,
 RD QUARTER, FY87, ALLUVIAL AQUIFER

SOURCE: ESE, 1988



EXPLANATION

CONCENTRATIONS IN ug/l

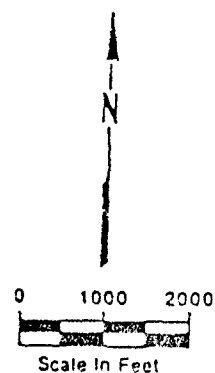
ISOCONCENTRATION LINE

ISOCONCENTRATION LINE INFERRED

○ NETWORK MONITORING WELL-SAMPLE NOT ANALYZED

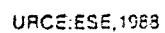
● MONITORING WELL SAMPLED THIS QUARTER

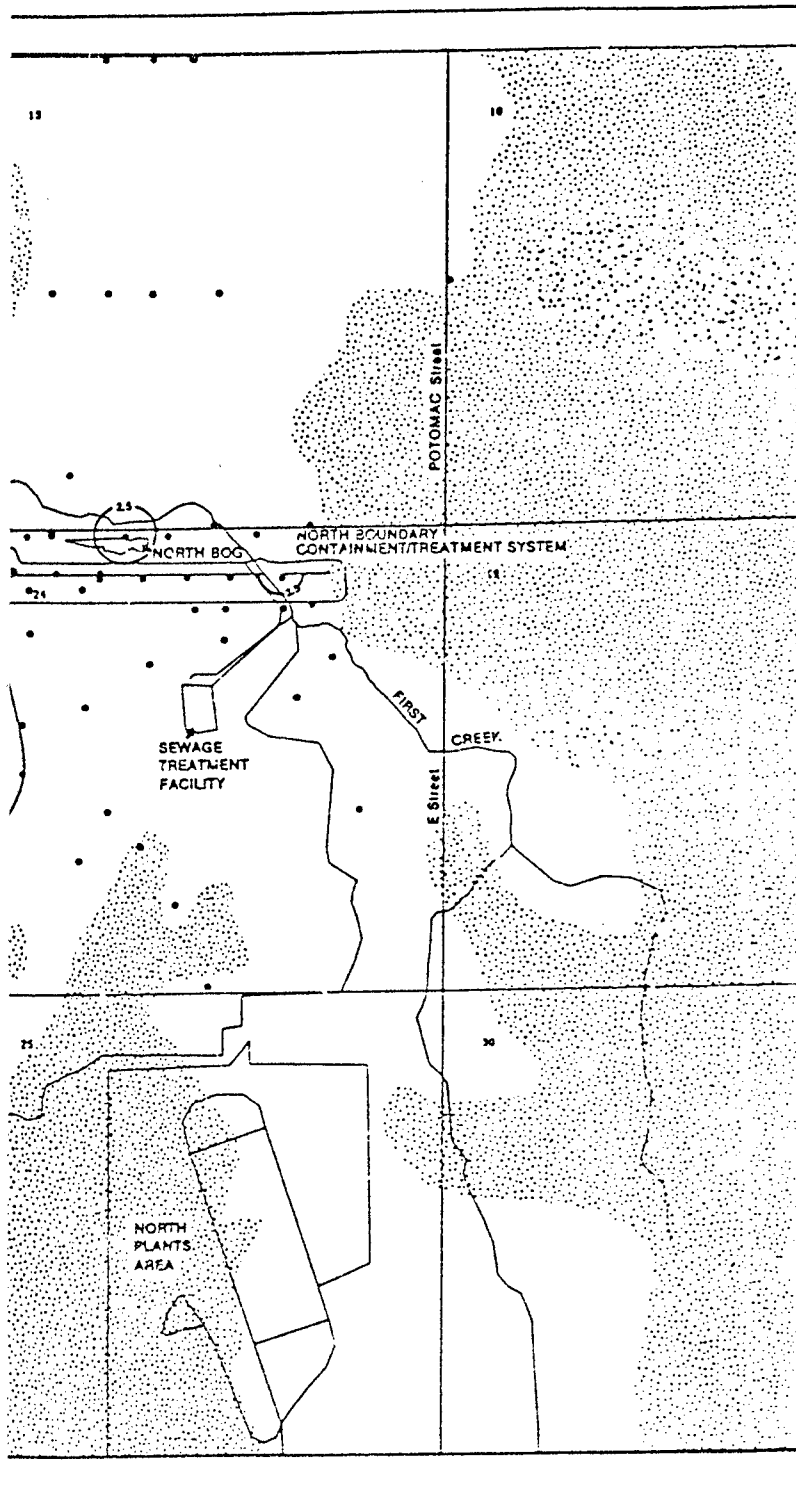
UNSATURATED ALLUVIUM



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




Aberdeen Proving Ground, Maryland

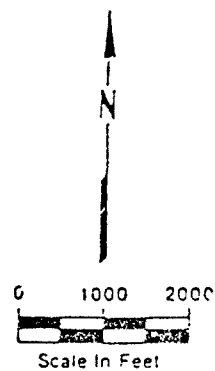




EXPLANATION

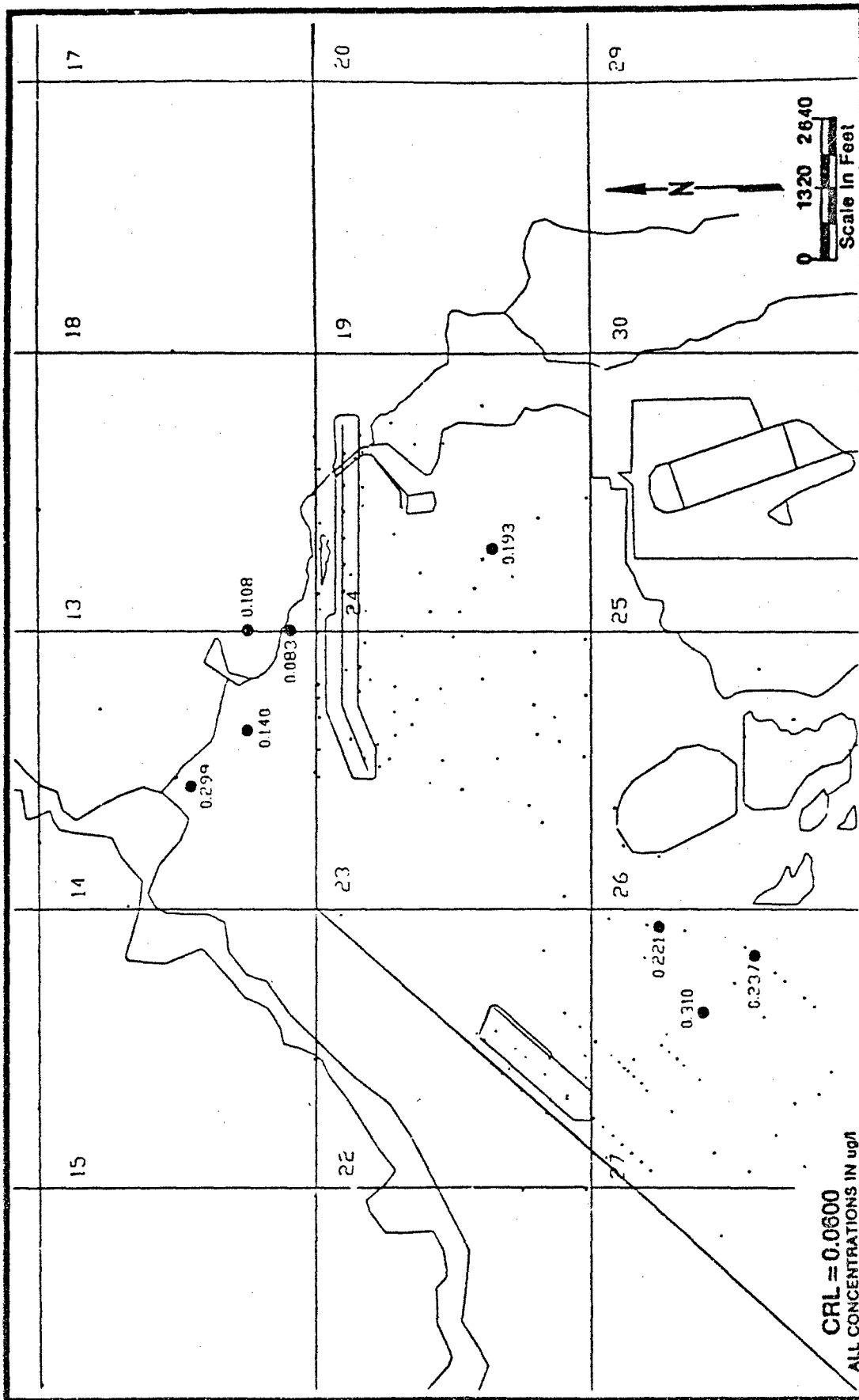
CONCENTRATIONS IN $\mu\text{g/l}$

-  ISOCONCENTRATION LINE
-  ISOCONCENTRATION LINE INFERRED
-  NETWORK MONITORING WELL - SAMPLE NOT ANALYZED
-  MONITORING WELL SAMPLED THIS QUARTER
-  UNSATURATED ALLUVIUM



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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

SOURCE: ESE, 1988

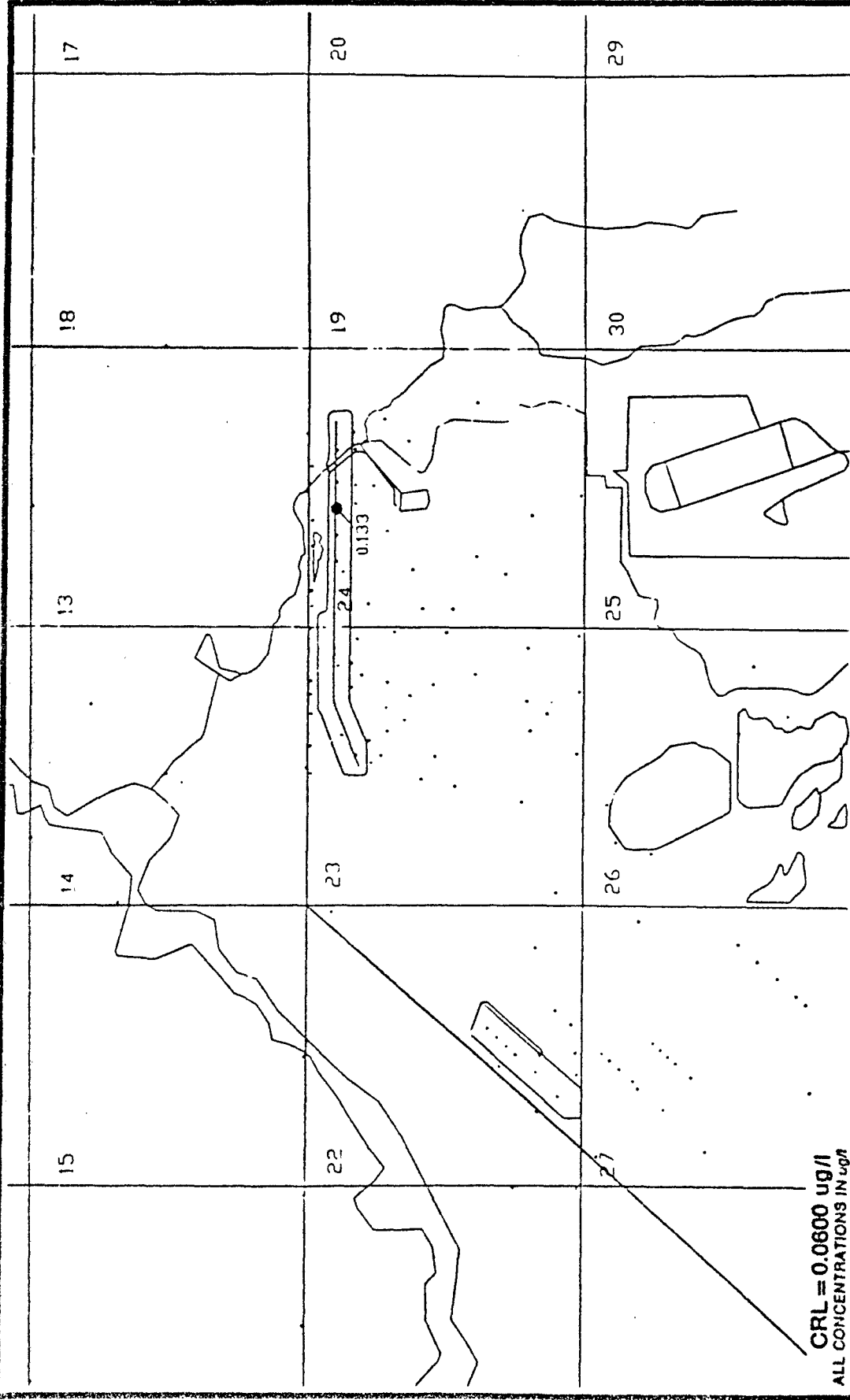


Figure B-83B
SECOND QUARTER, FY87
ALDRIN DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1038

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Aberdeen Proving Ground, Maryland

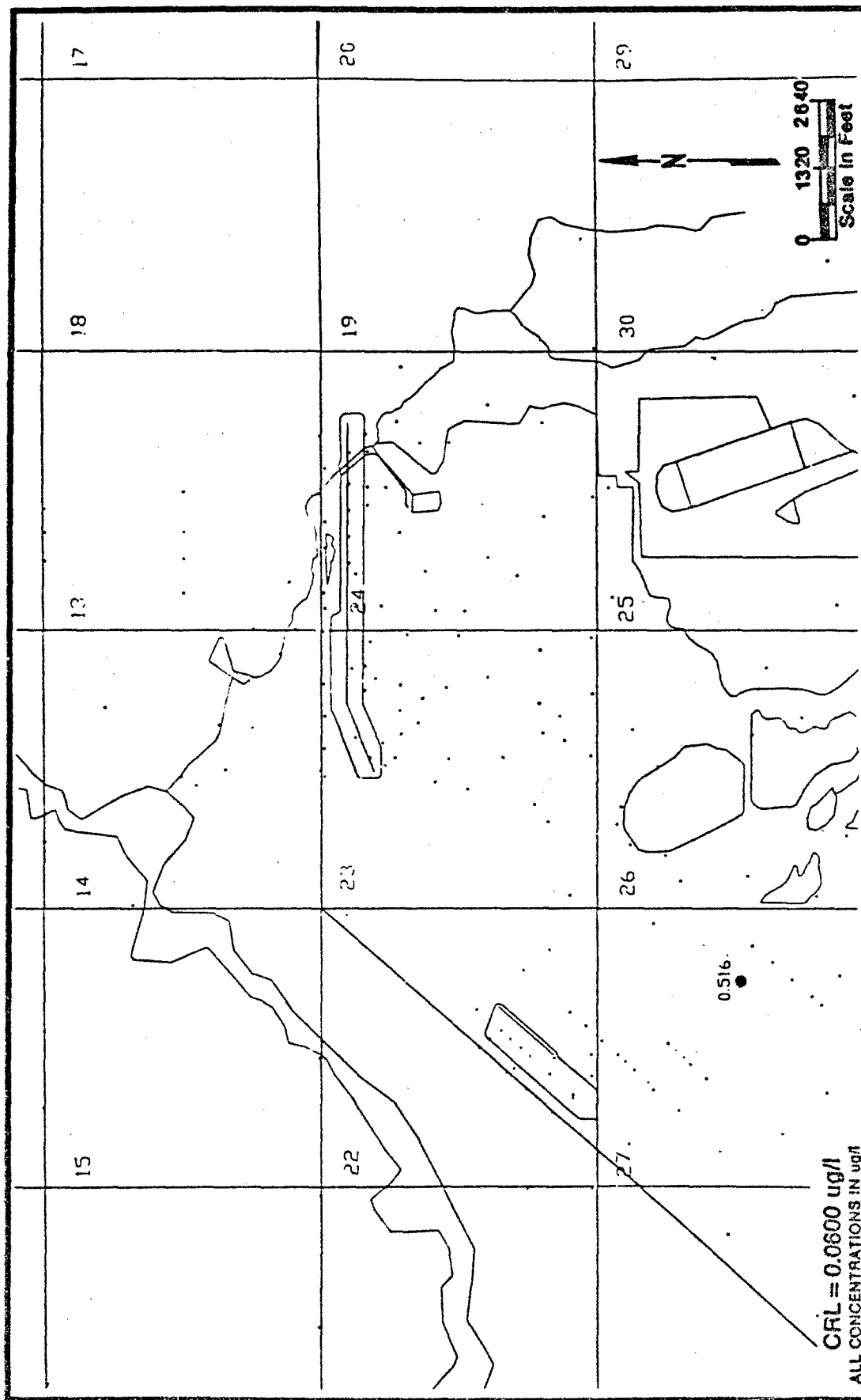


Figure B-83C
THIRD QUARTER, FY87
ALDRIN DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

Prepared for:
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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

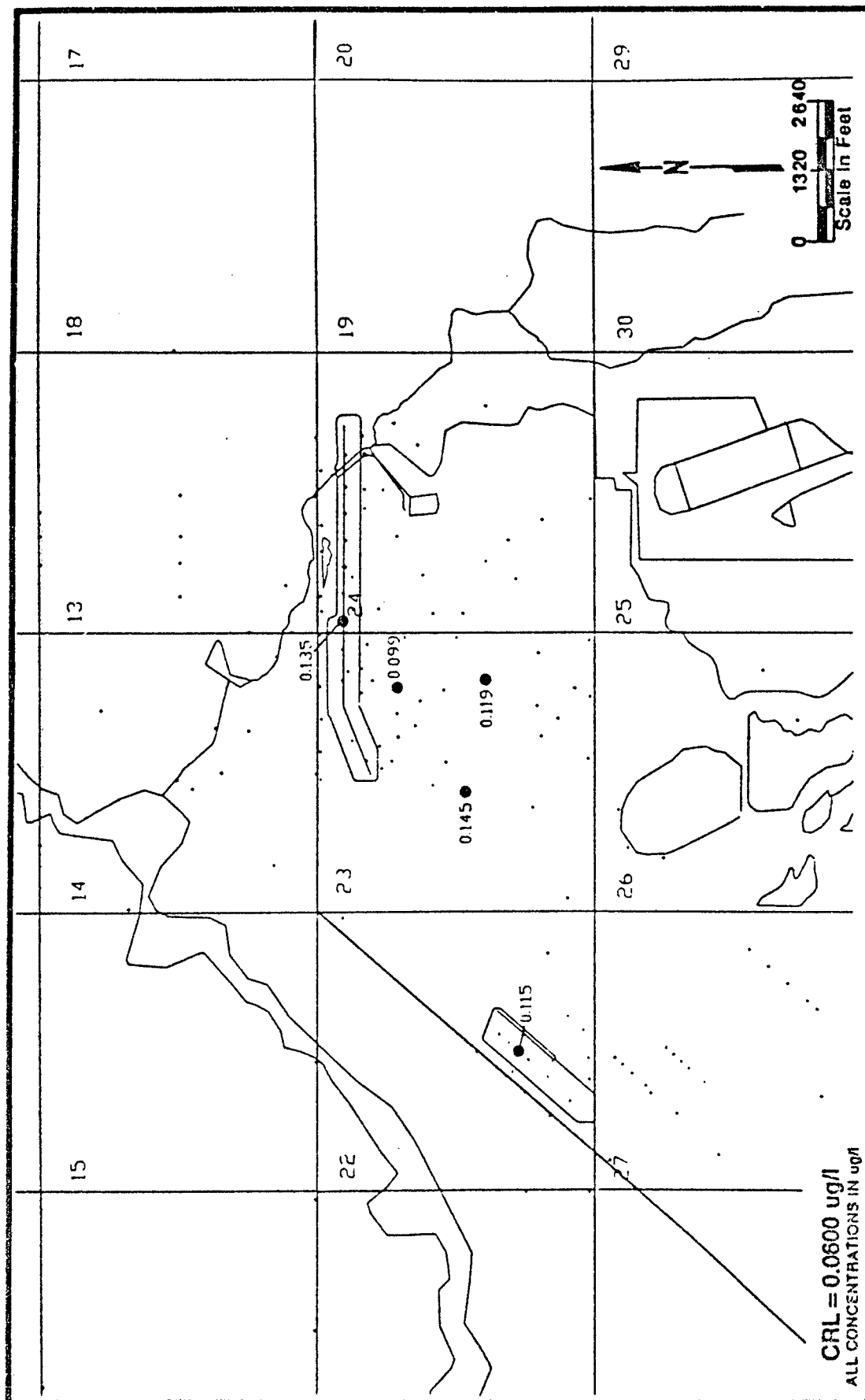


Figure B-83D
FOURTH QUARTER, FY87
ALDRIN DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

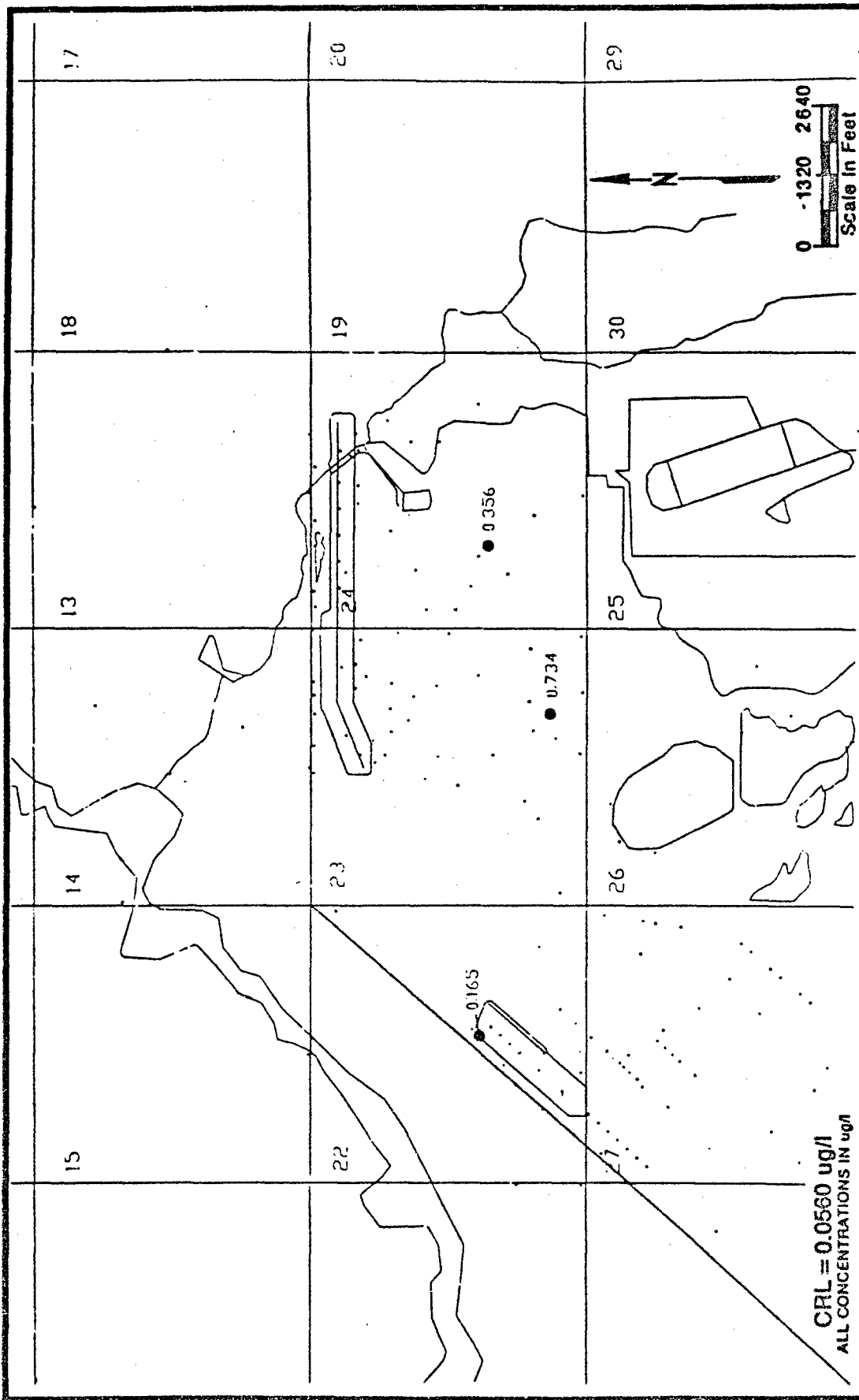


Figure B-84A
FIRST QUARTER, FY87
ISODRIN DETECTIONS
ALLUVIAL AQUIFER

SOURCE: ESE, 1988

Prepared for:
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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

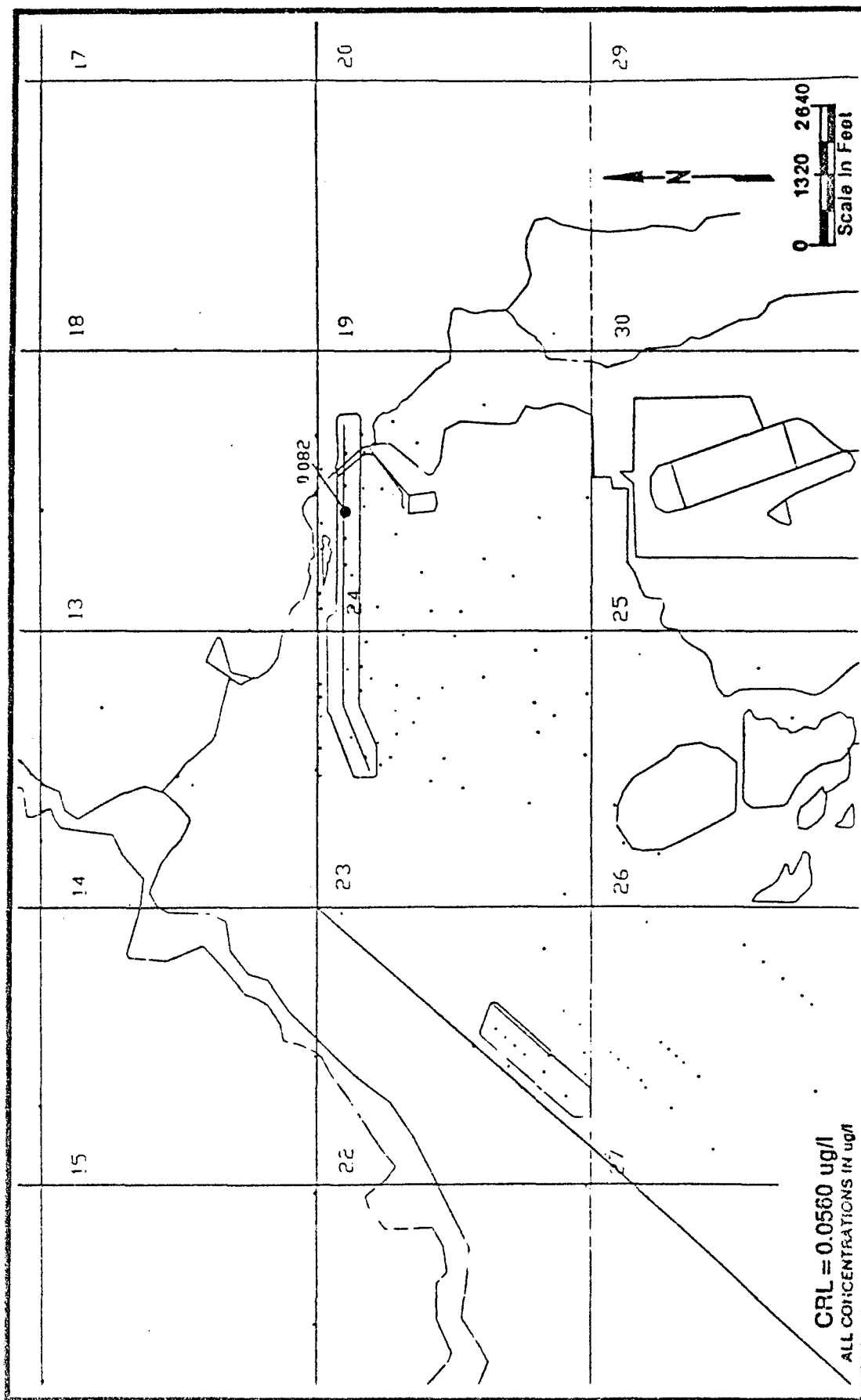
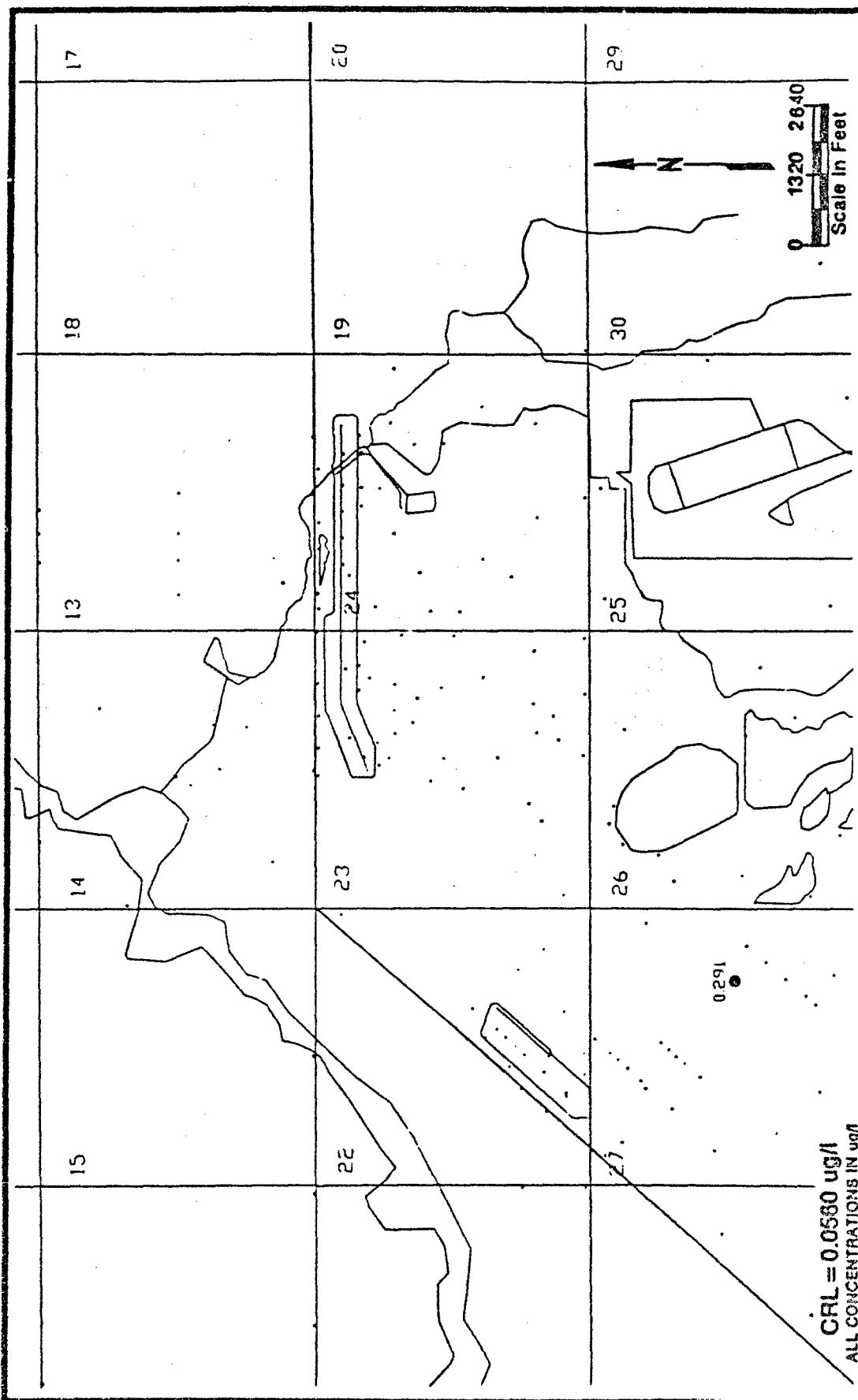


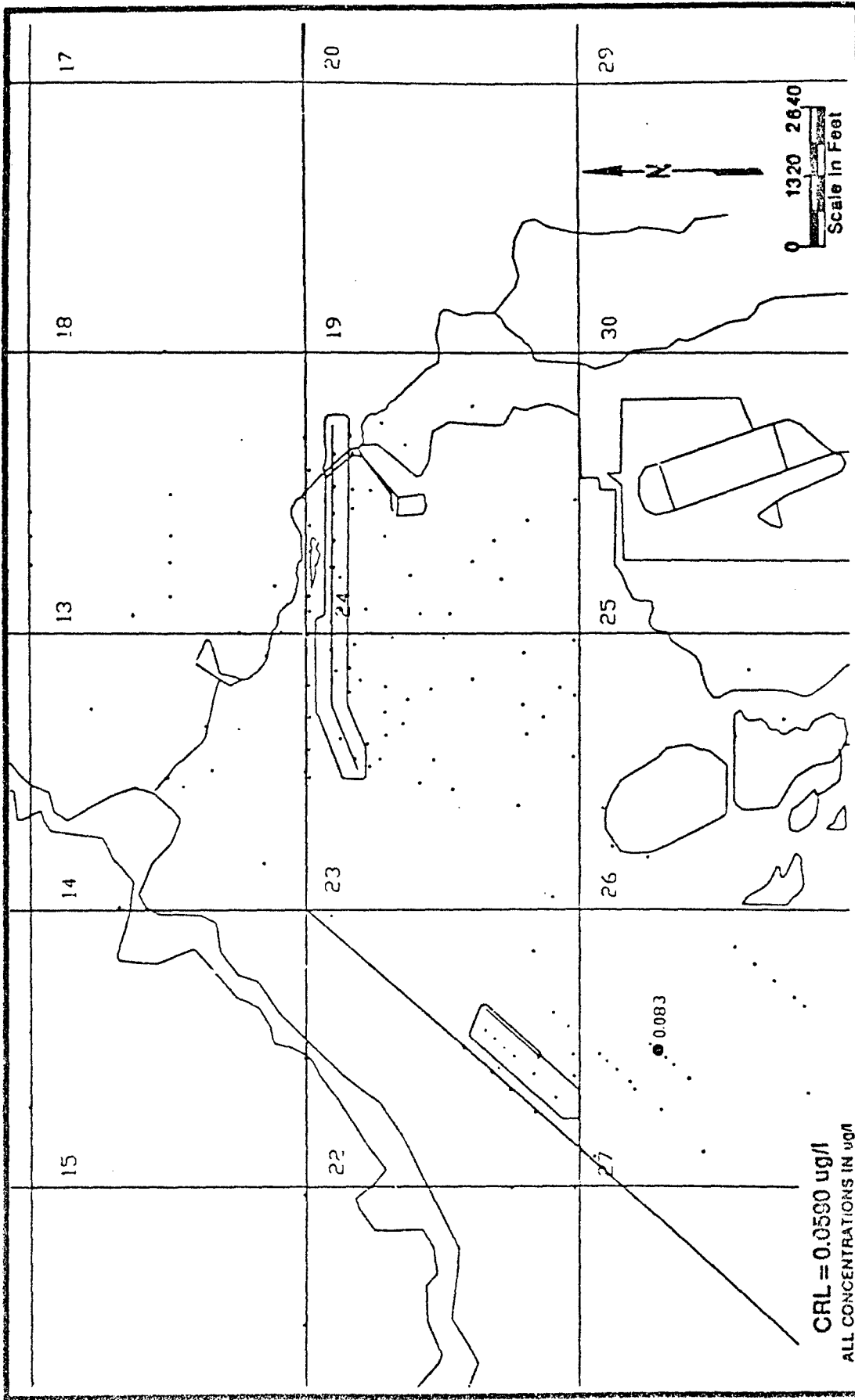
Figure B-84B
SECOND QUARTER, FY87
ISODRIN DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1998

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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



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 For Rocky Mountain Arsenal
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Figure B-84C
 THIRD QUARTER, FY87
 ISODRIN DETECTIONS
 ALLUVIAL AQUIFER
 SOURCE: ESE, 1988



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Aberdeen Proving Ground, Maryland

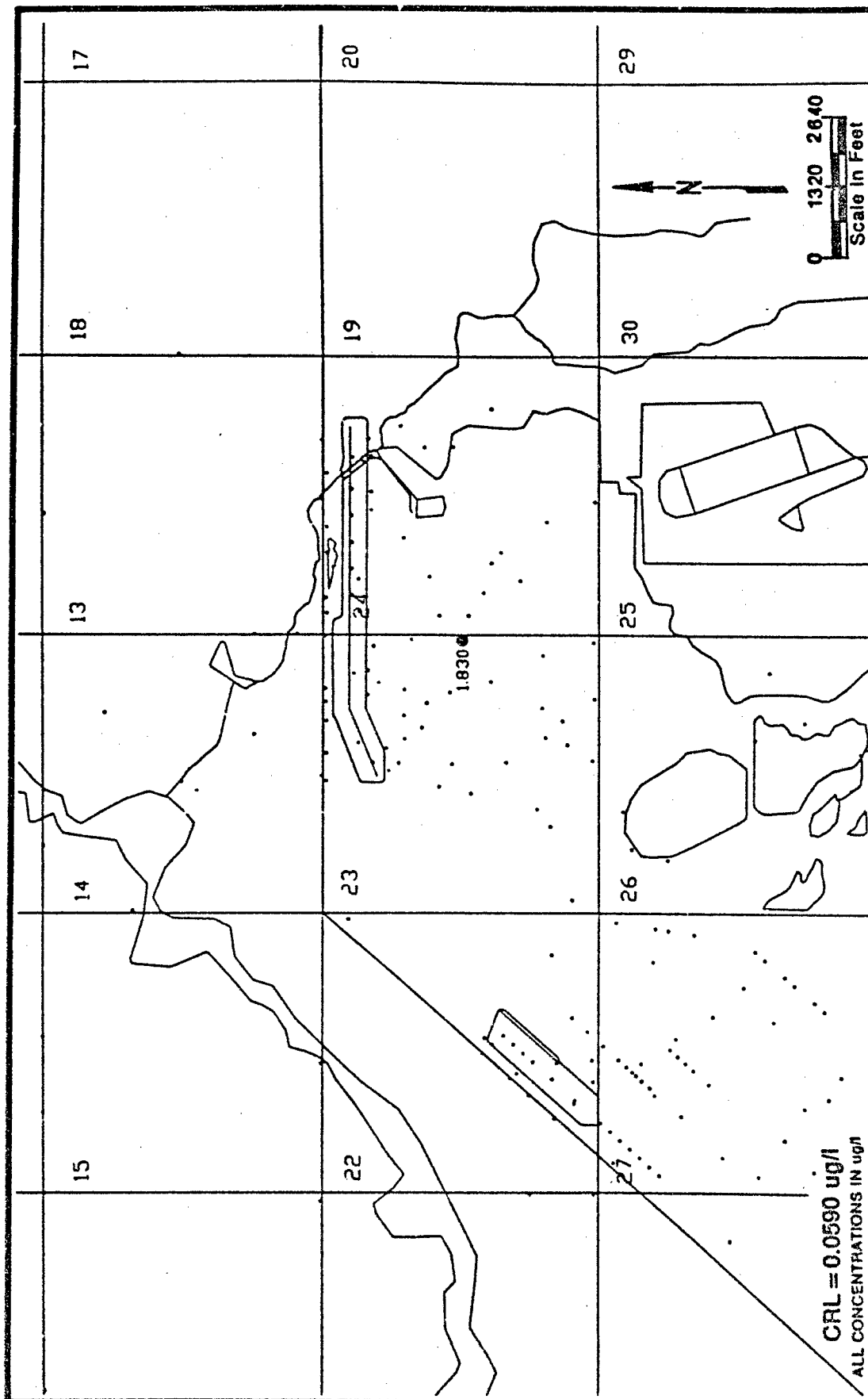


Figure B-85A
FIRST QUARTER, FY87
DDT DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

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Aberdeen Proving Ground, Maryland

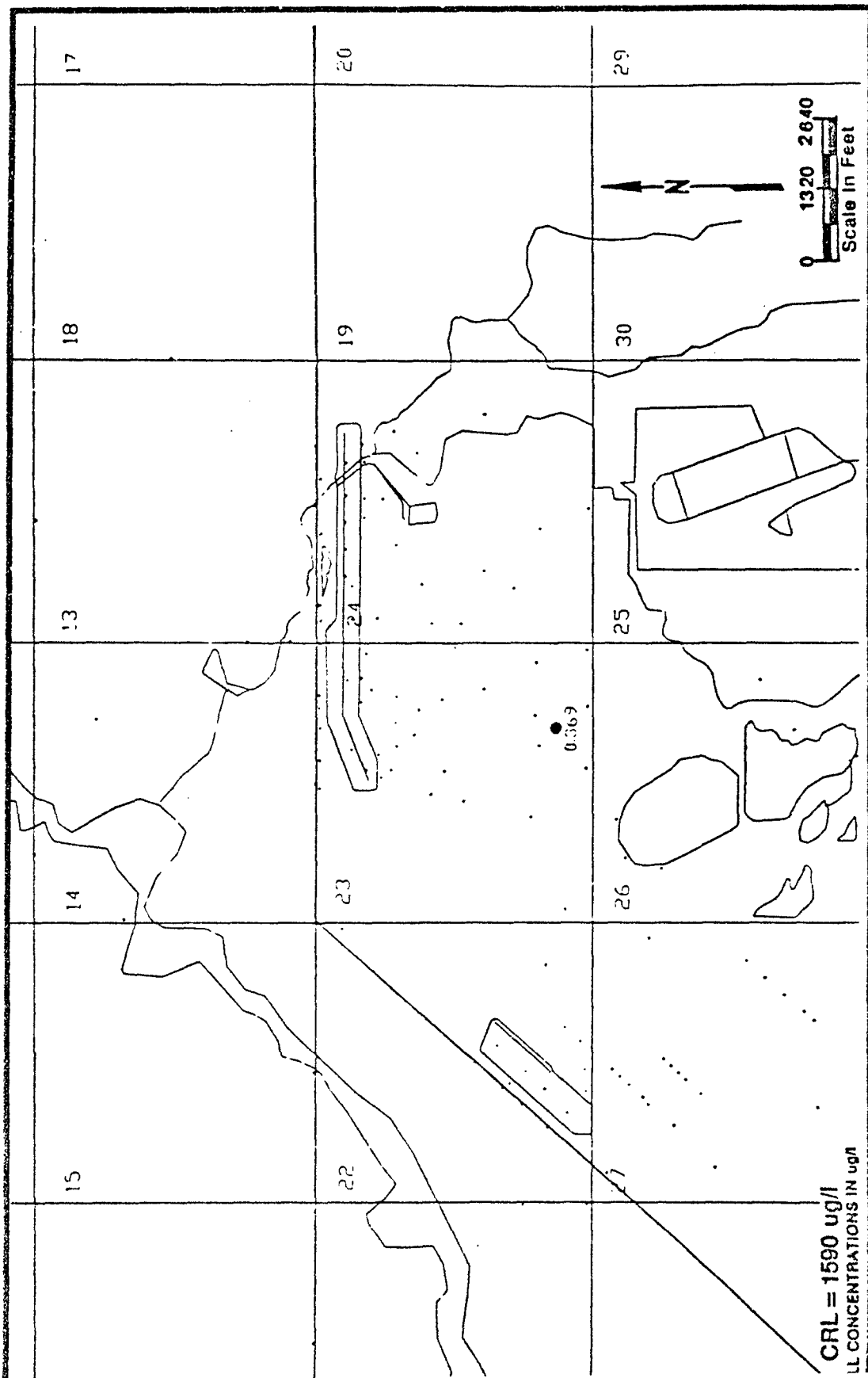


Figure B-55B
SECOND QUARTER, FY87
DDT DETECTIONS
ALLUVIAL AQUIFER

SOURCE: ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

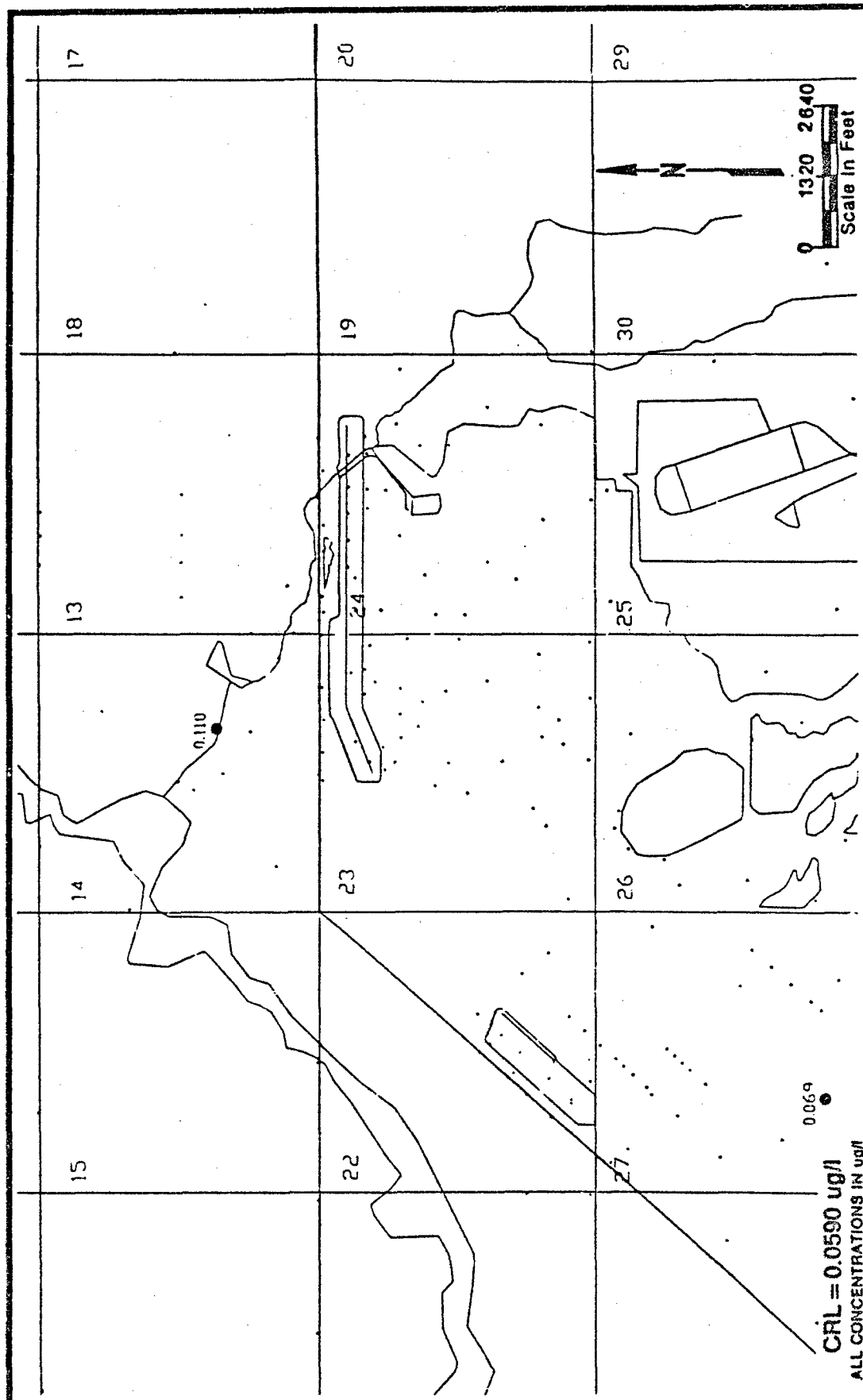


Figure B-85C
 THIRD QUARTER, FY87
 DDT DETECTION
 ALLUVIAL AQUIFER
 SOURCE: ESE, 1988

Prepared for:
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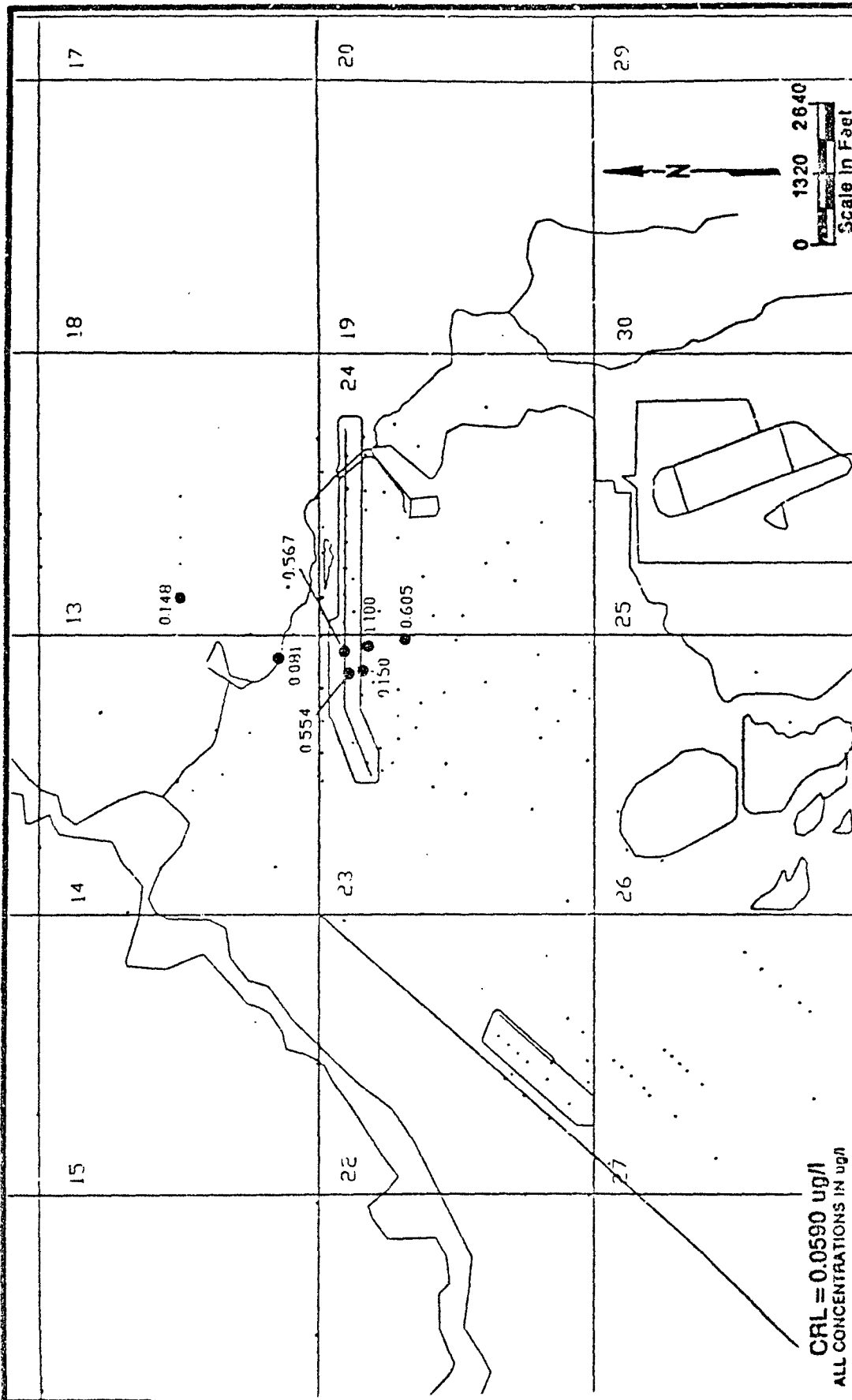


Figure B-85D
FOURTH QUARTER, FY87
DDT DETECTION,
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Abtdeen Proving Ground, Maryland

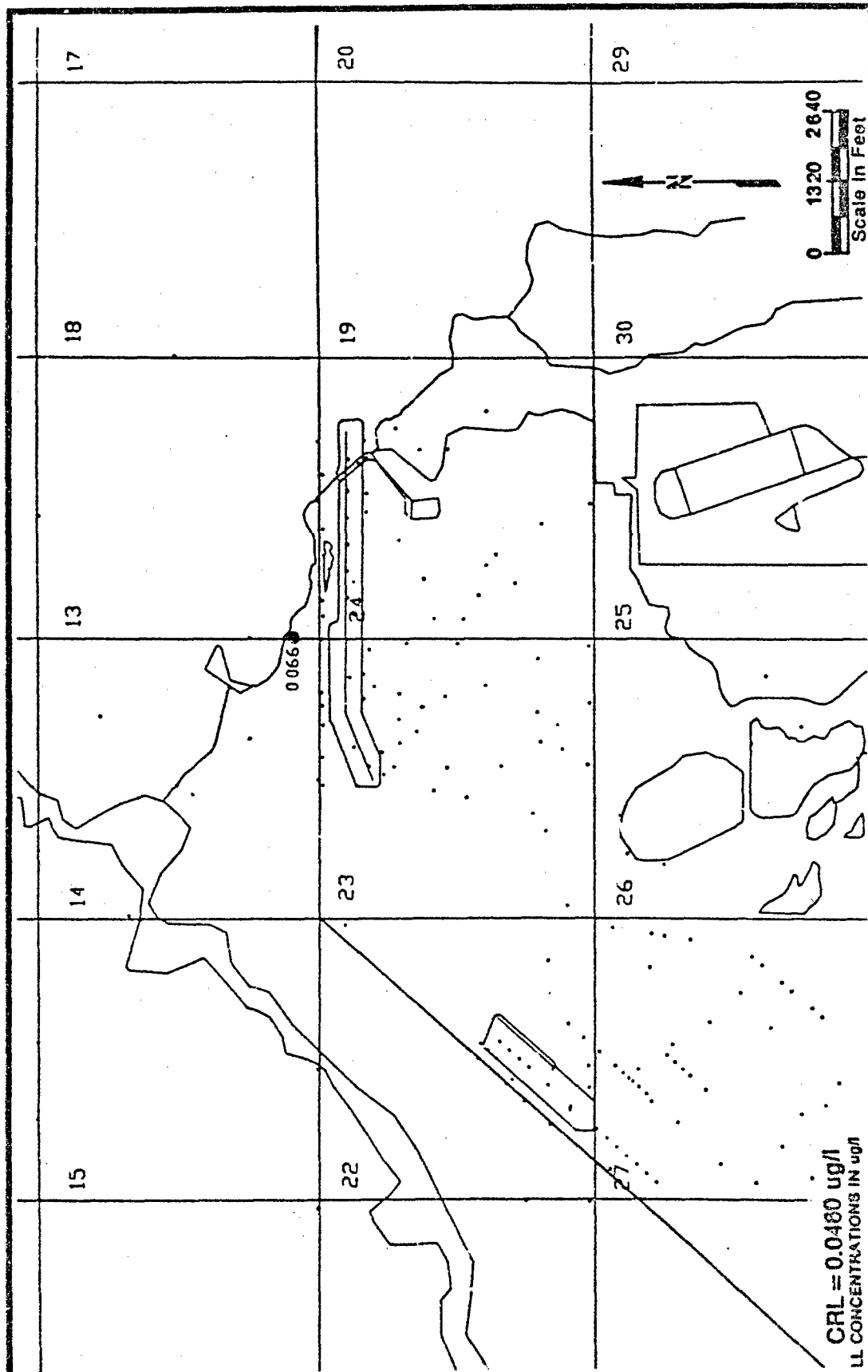


Figure B-86A
FIRST QUARTER, FY87
DDE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

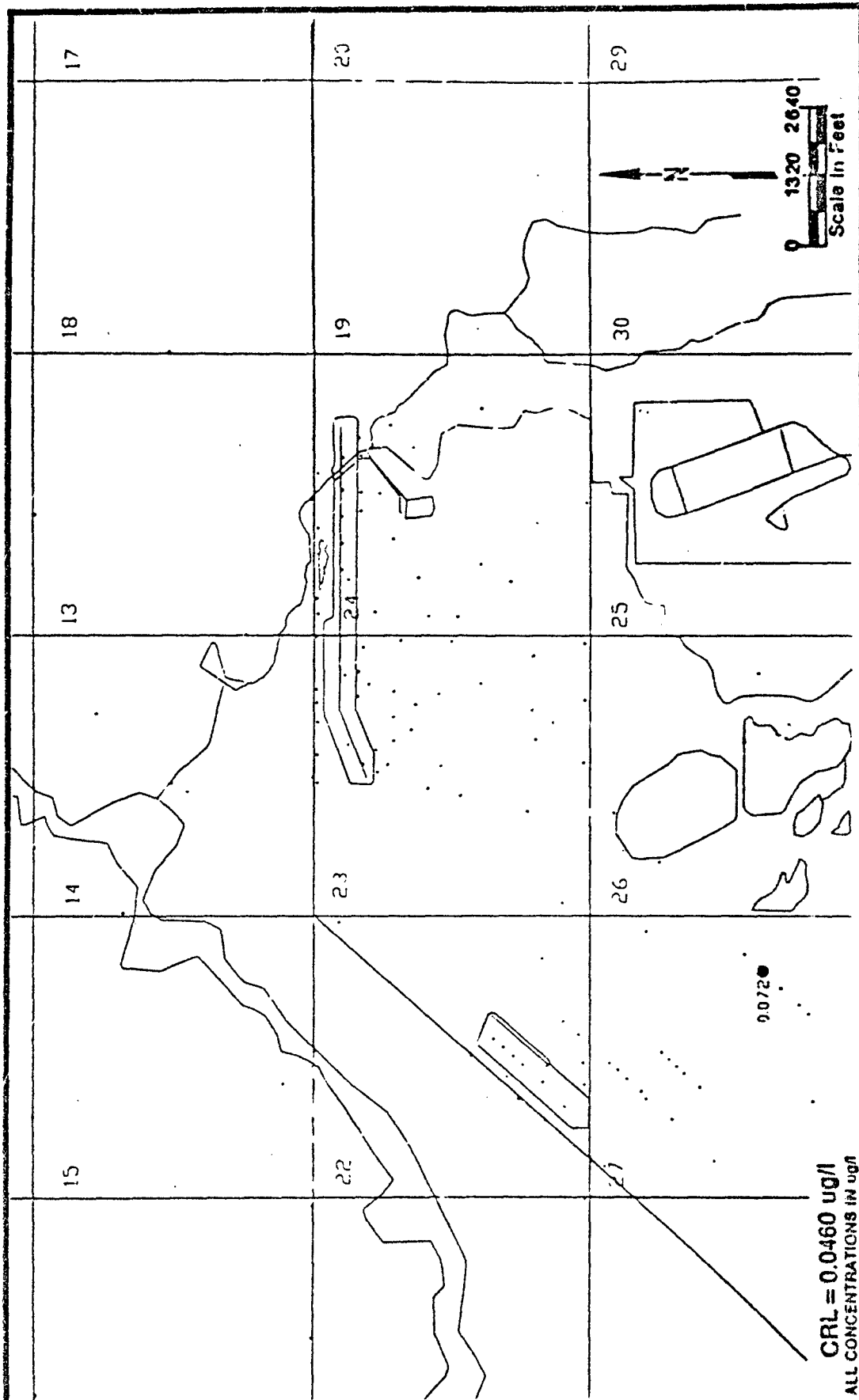
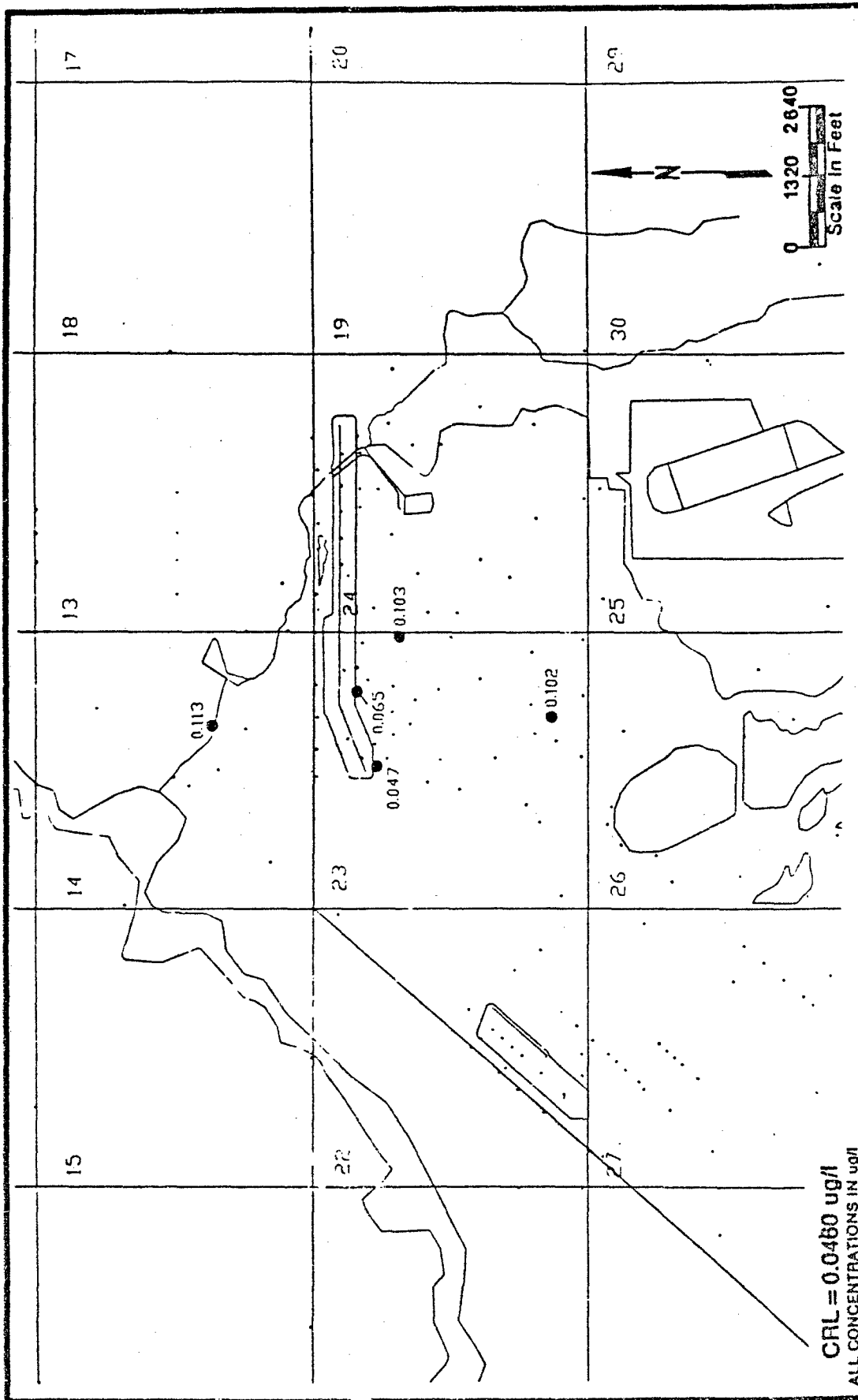


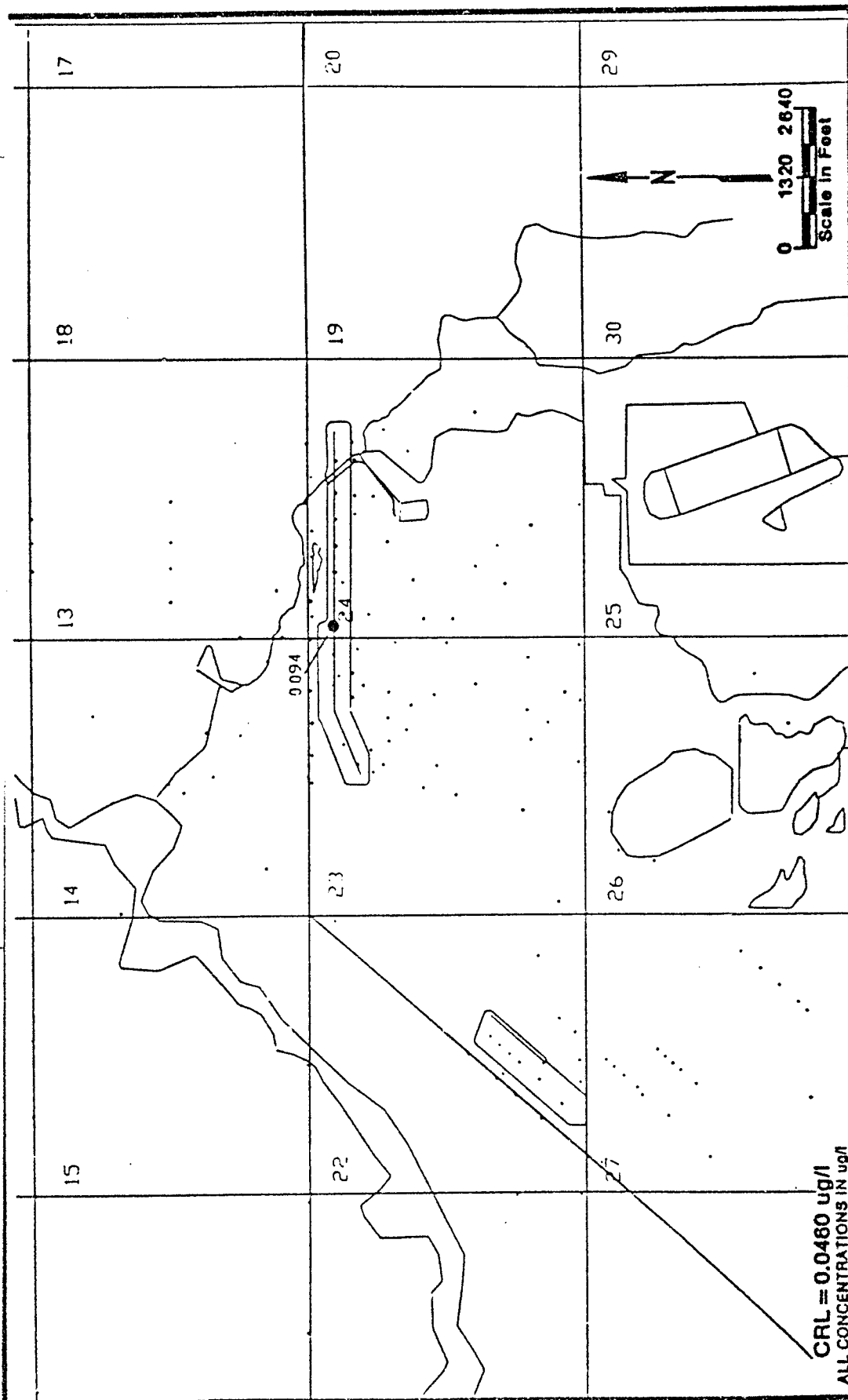
Figure B-80B
SECOND QUARTER, FY87
DDE DETECTIONS
ALLUVIAL AQUIFER
 SOURCE: ESE, 1986



CRL = 0.0460 ug/l
ALL CONCENTRATIONS IN ug/l

Figure B-86C
THIRD QUARTER FY87
DDE DETECTIONS,
ALLUVIAL AQUIFER
SOURCE: ESE, 1986

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Aberdeen Proving Ground, Maryland



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 For Rocky Mountain Arsenal
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Figure B-86D
 FOURTH QUARTER, FY87
 DDE DETECTIONS
 ALLUVIAL AQUIFER
 SOURCE: ESE, 1988

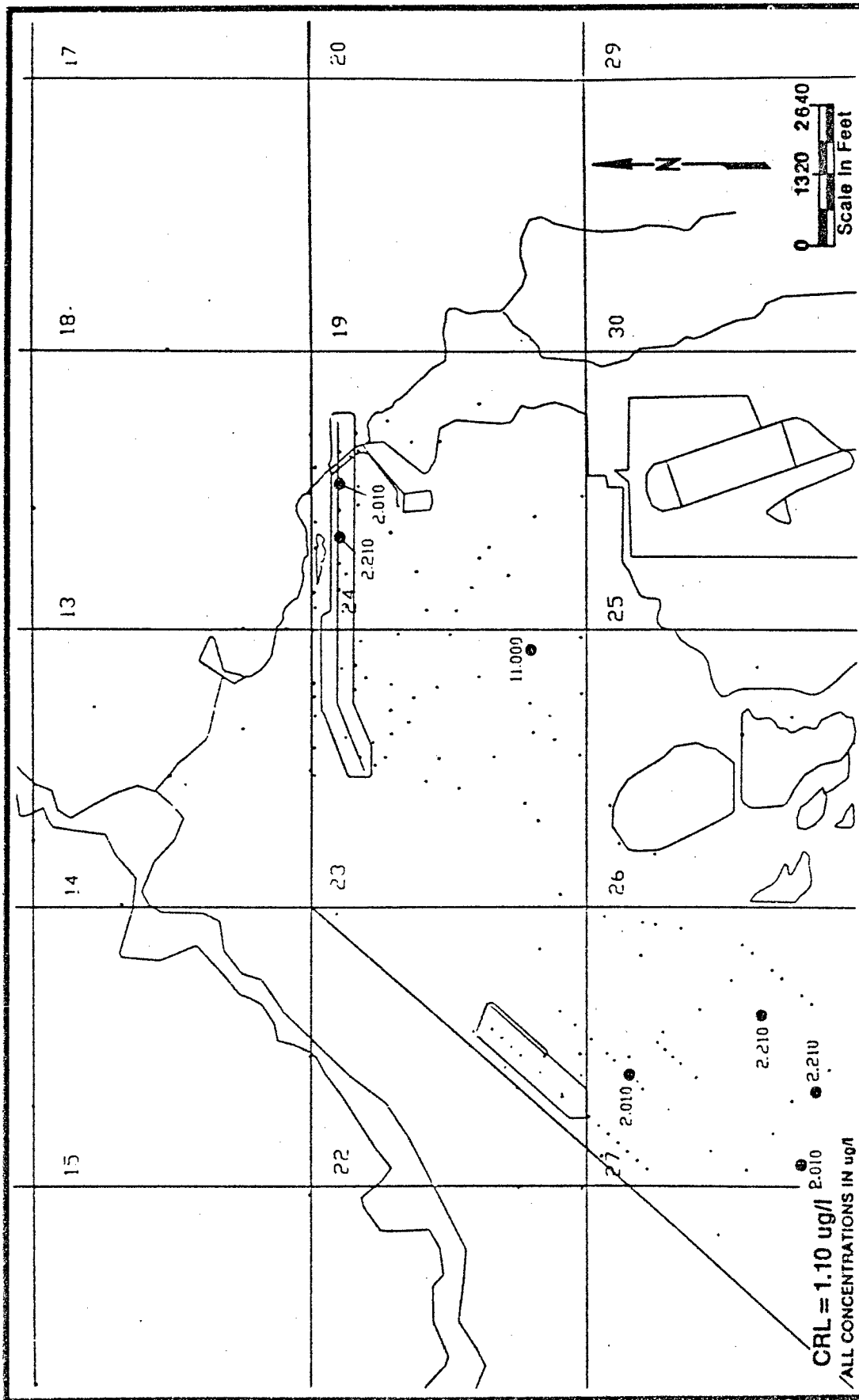


Figure B-87 A
 FIRST QUARTER, FY87
 1,1-DICHLOROETHENE DETECTIONS
 ALLUVIAL AQUIFER
 SOURCE: ESE, 1988

Prepared for:
 U.S. Army Program Manager's Office
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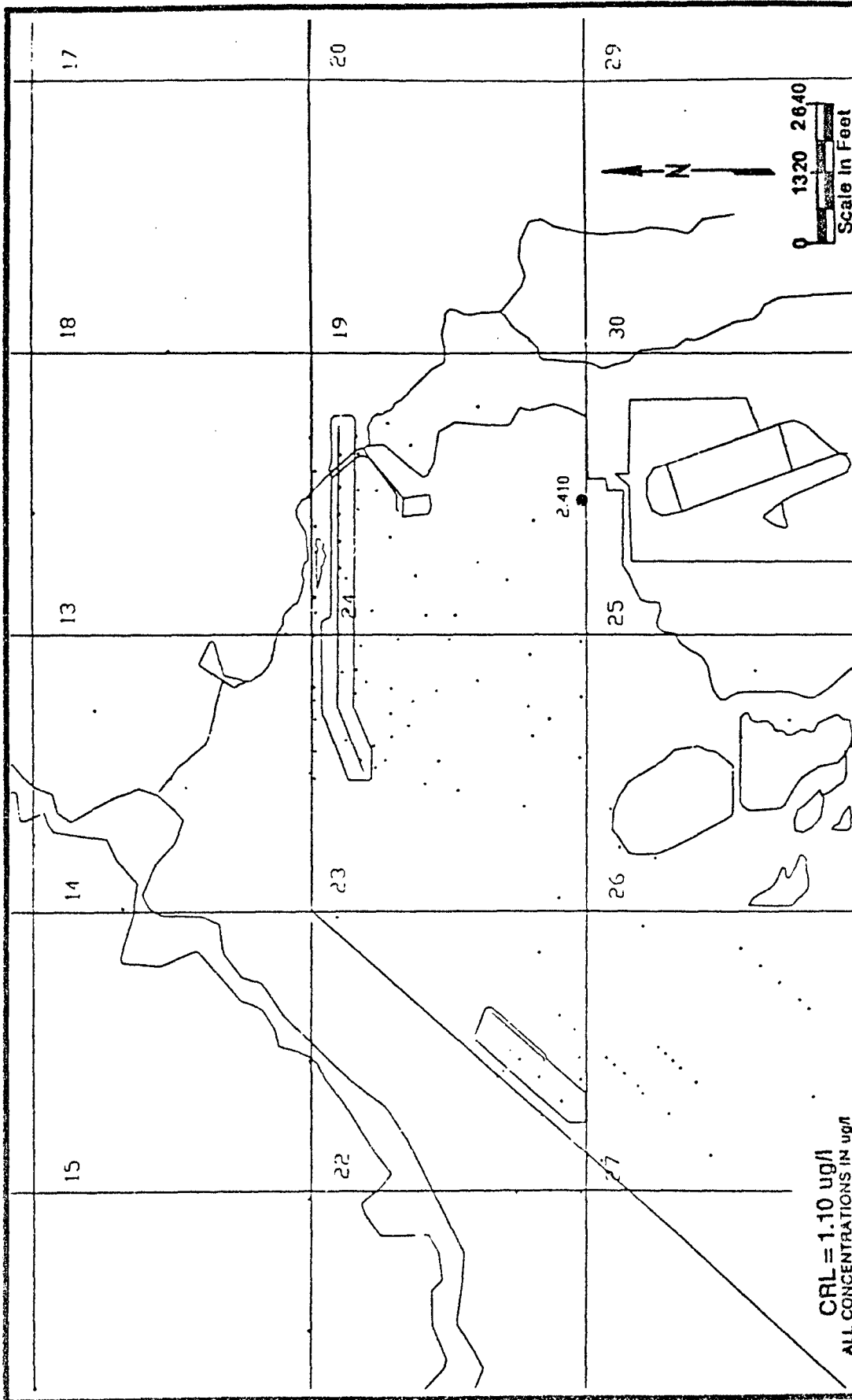


Figure B-87 B
SECOND QUARTER, FY87
1,1-DICHLOROETHENE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
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Aberdeen Proving Ground, Maryland

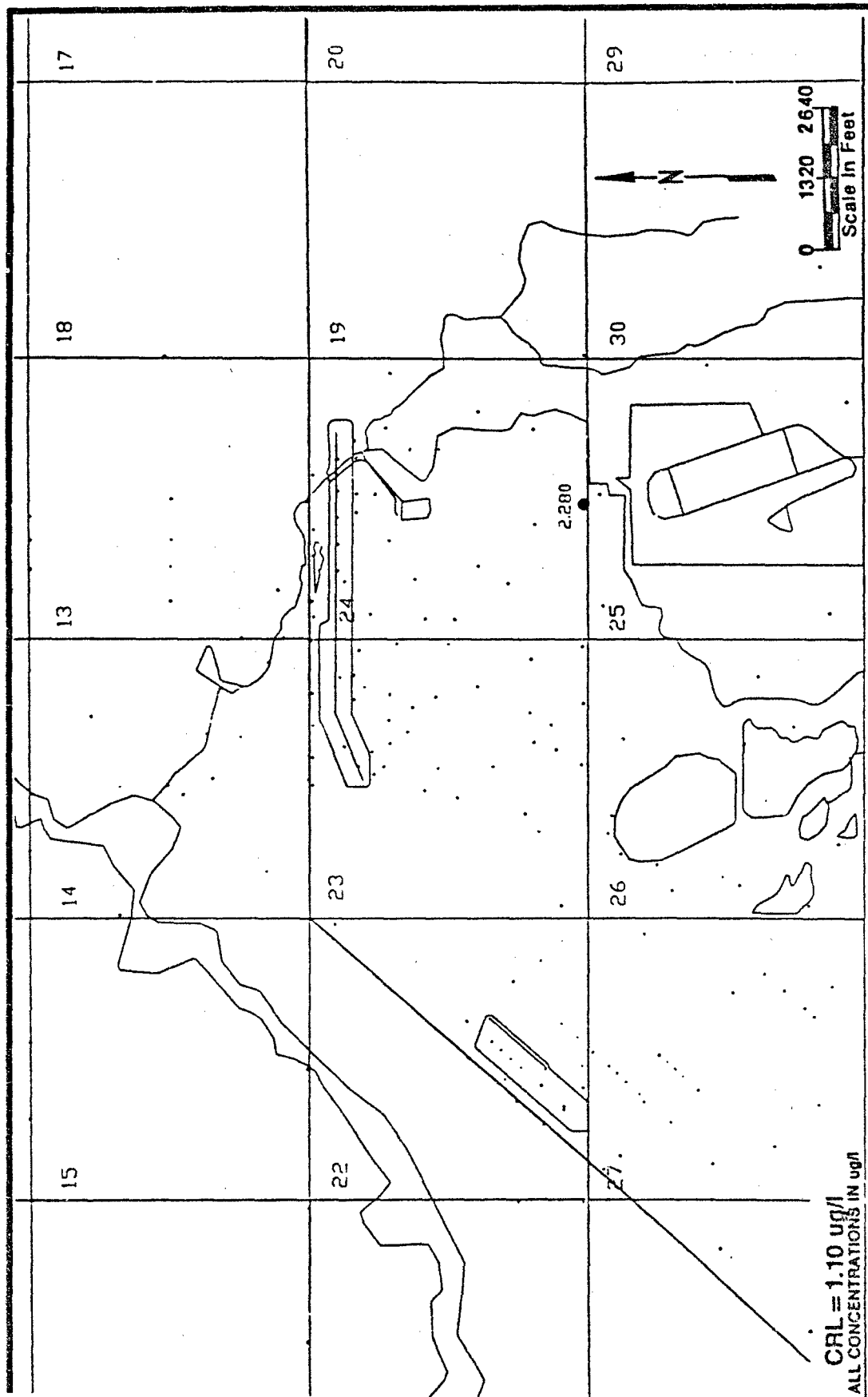


Figure B-87C
THIRD QUARTER FY87
1,1-DICHLOROETHENE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1983

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Aberdeen Proving Ground, Maryland

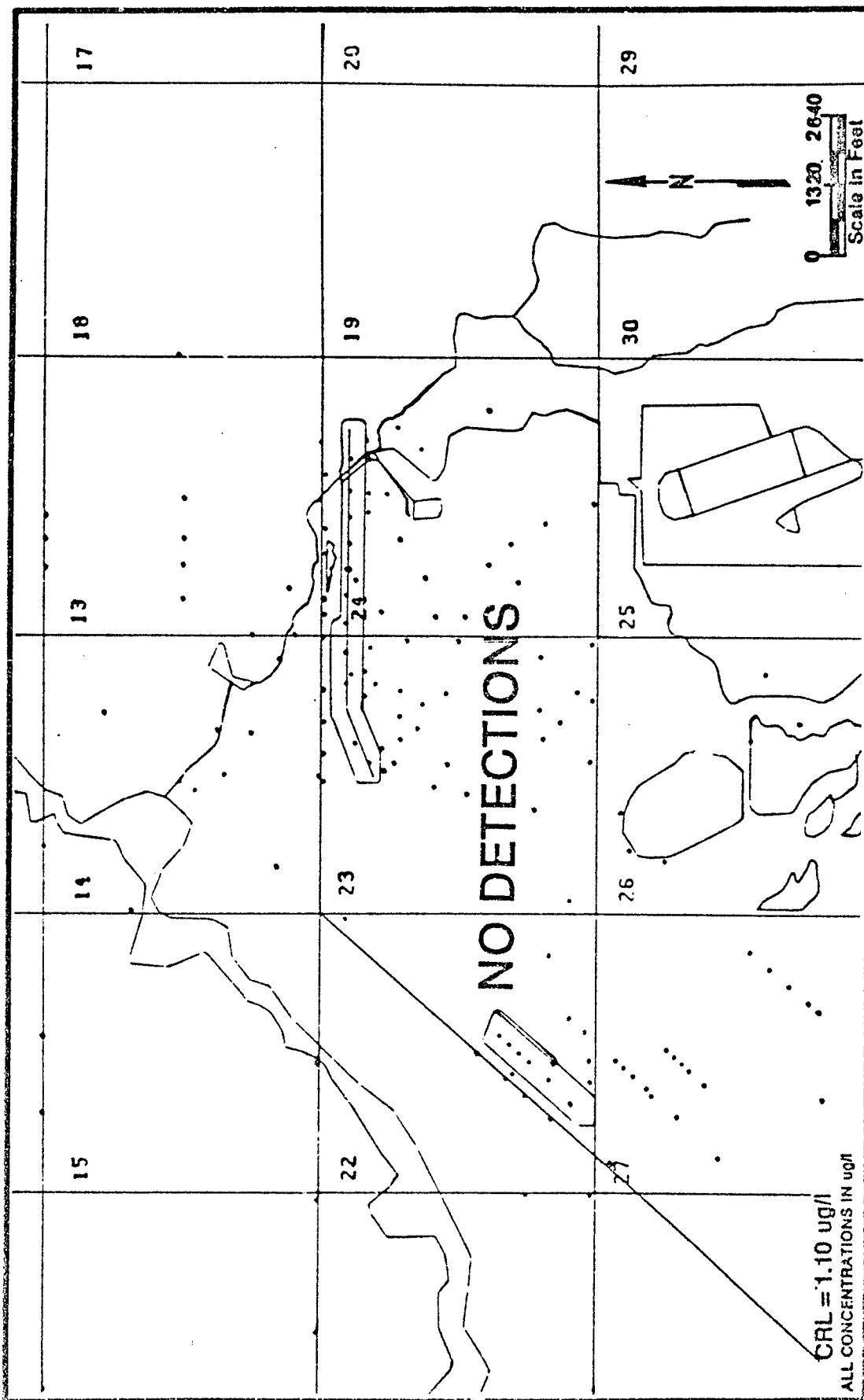
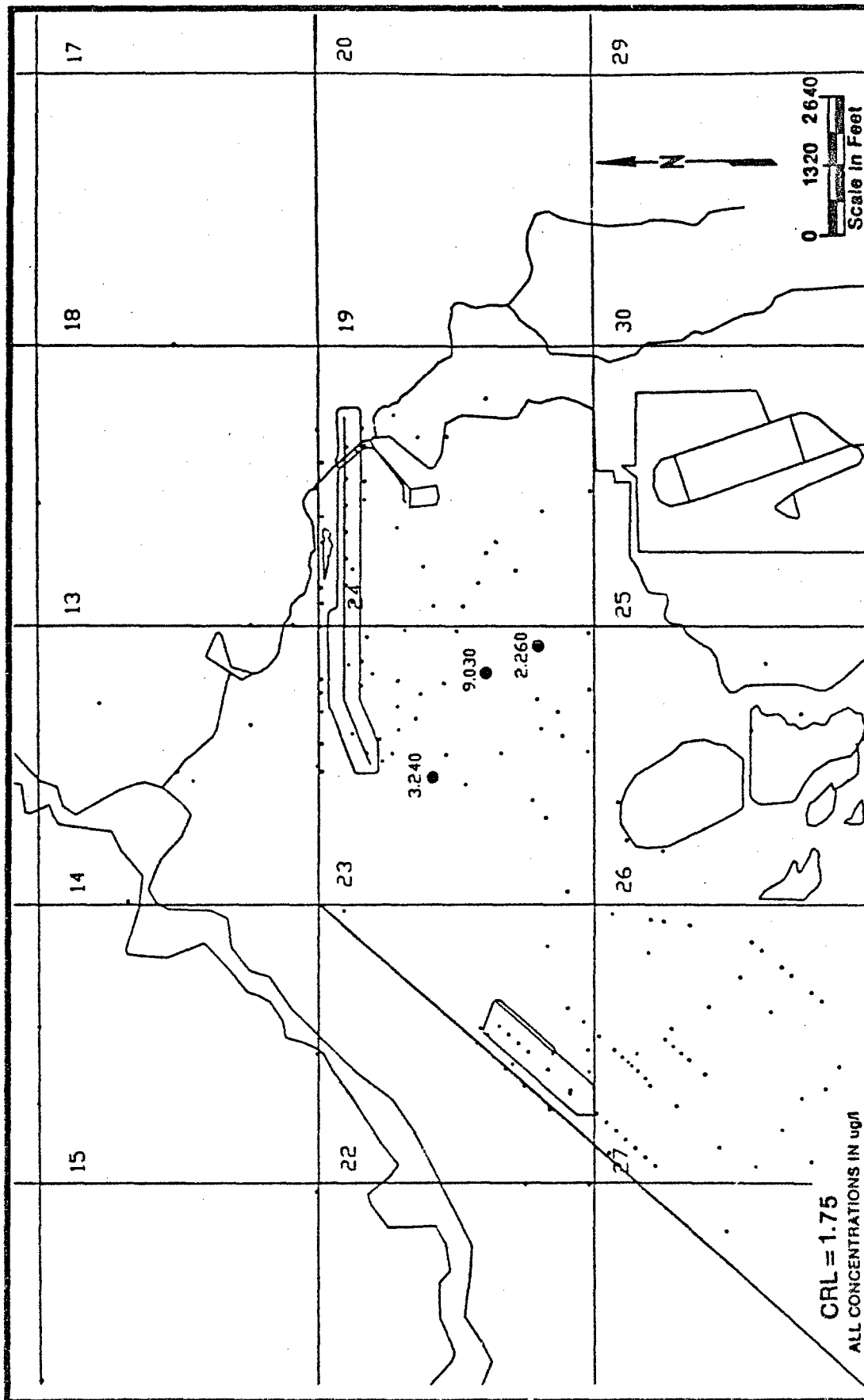


Figure B-87D
FOURTH QUARTER, FY87
1,1-DICHLOROETHENE DETECTIONS
ALLUVIAL AQUIFER

SOURCE: ESE, 1988

Prepared for:
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Aberdeen Proving Ground, Maryland



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Figure B-88A
 FIRST QUARTER, FY87
 T-1,2-DICHLOROETHENE DETECTIONS
 ALLUVIAL AQUIFER
 SOURCE: ESE, 1988

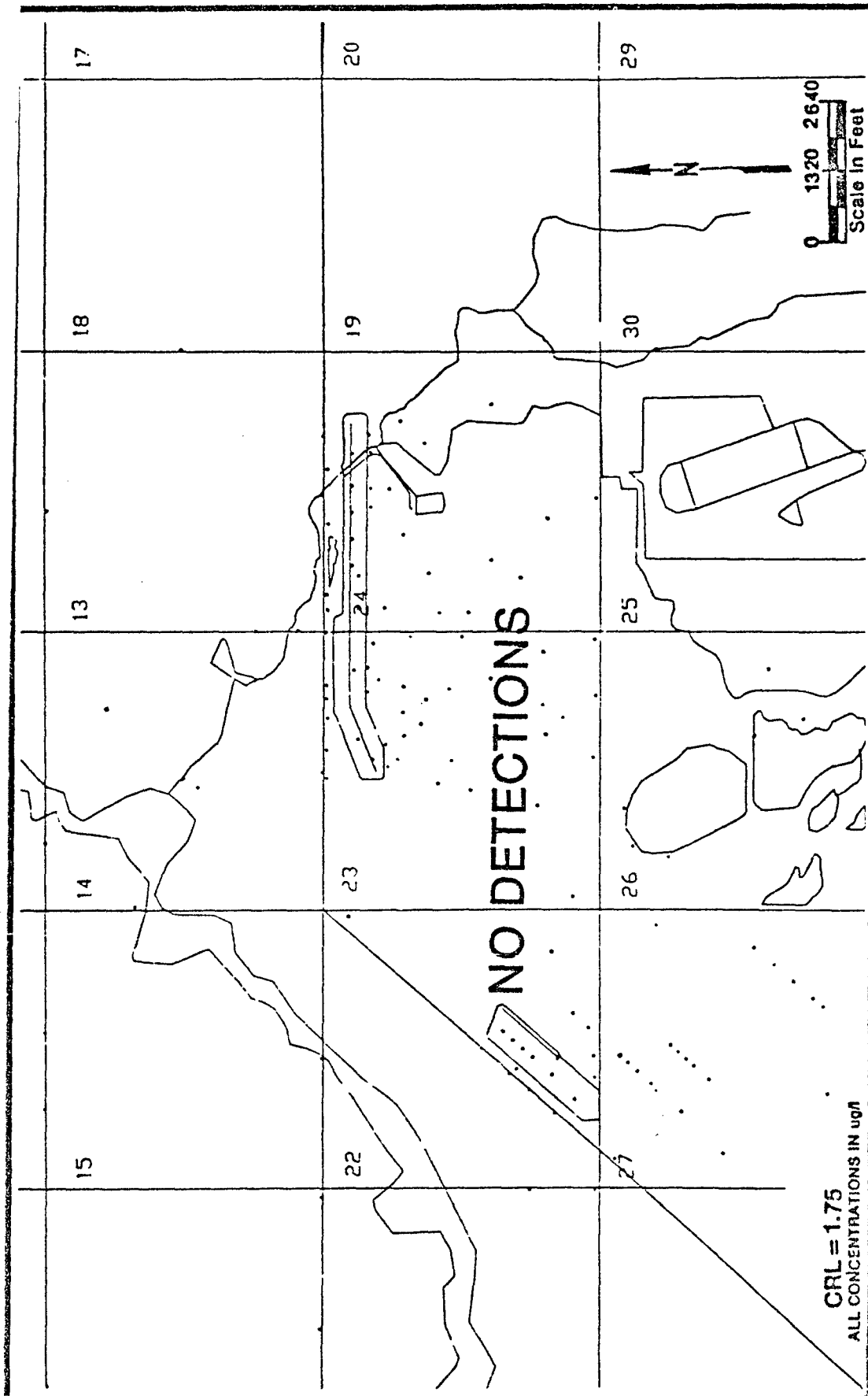


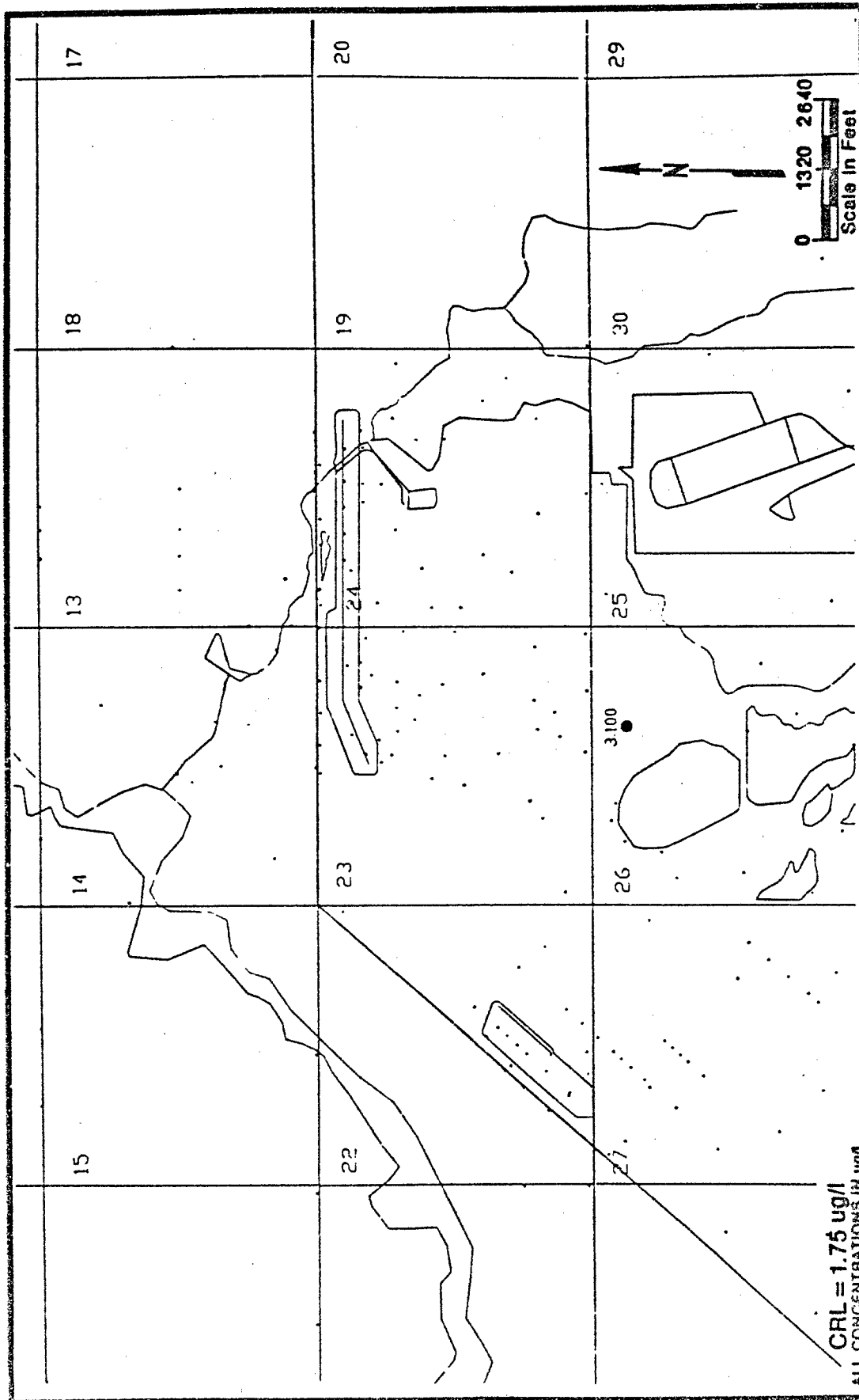
Figure B-88B

SECOND QUARTER, FY87
T-1,2-DICHLOROETHENE DETECTIONS
ALLUVIAL AQUIFER

SOURCE: ESE, 1983

Prepared for:

U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



Prepared for:

U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

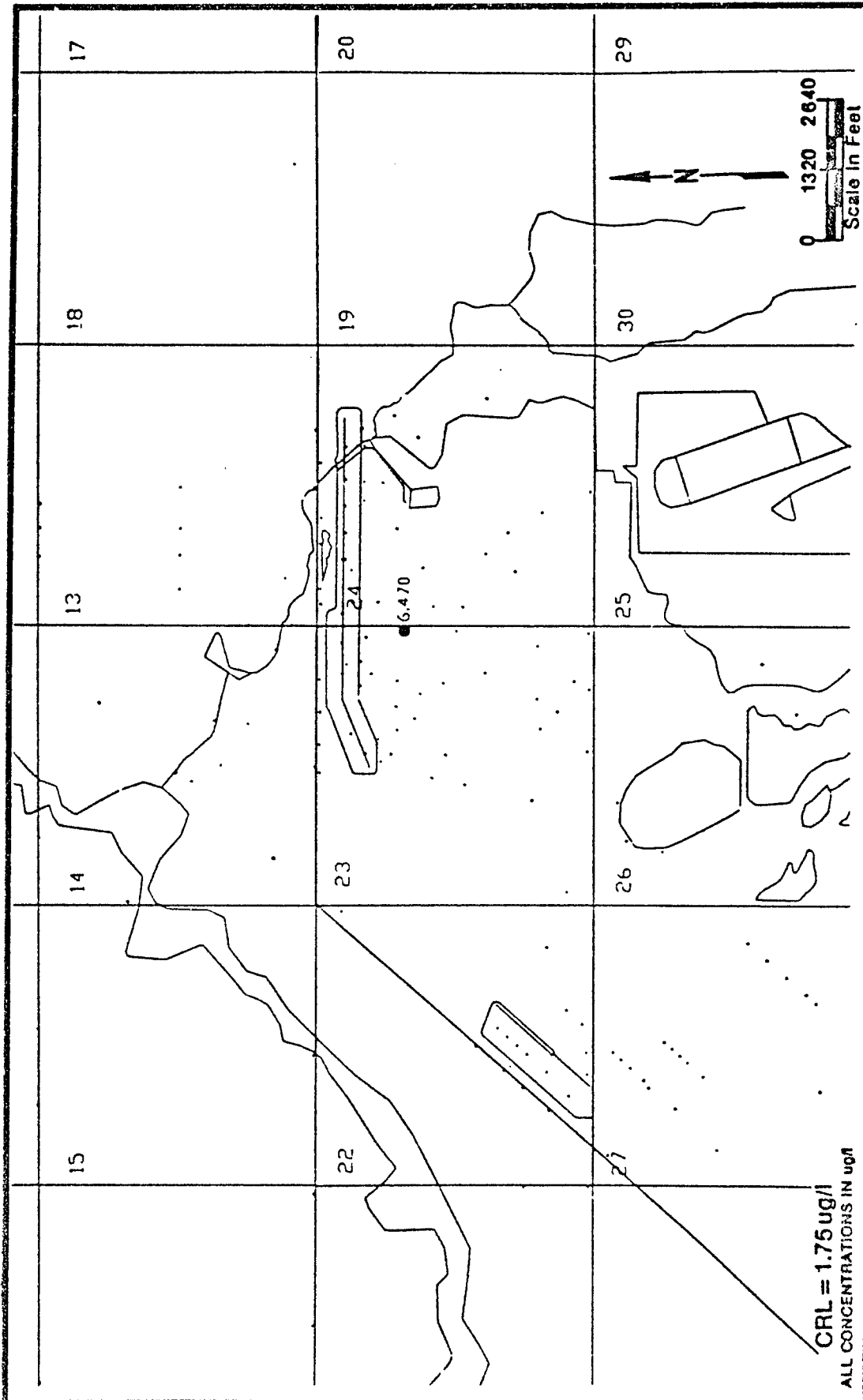


Figure B-88D
FOURTH QUARTER, FY87
T-1,2-DICHLOROETHENE DETECTIONS
ALLUVIAL AQUIFER

SOURCE: ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

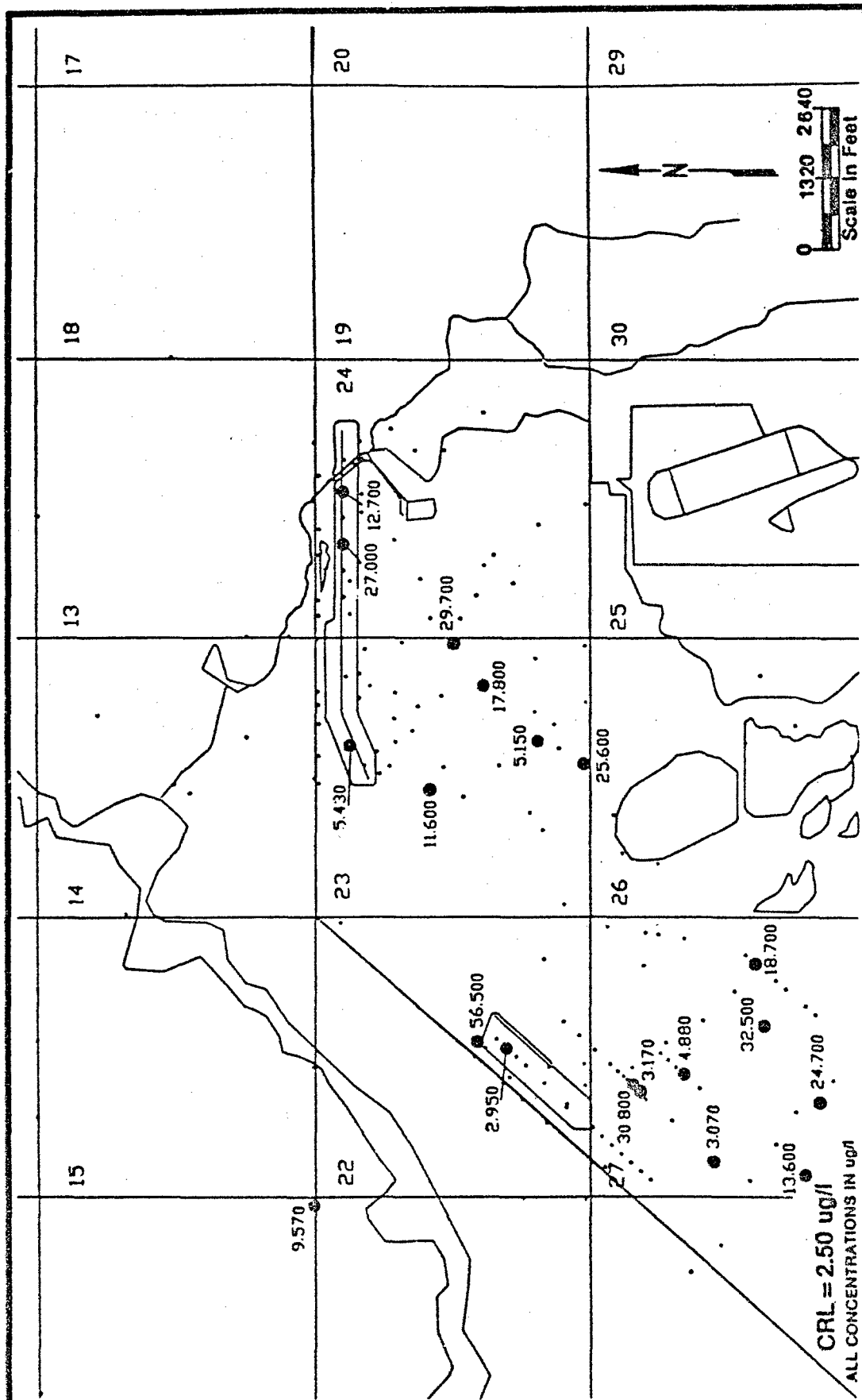
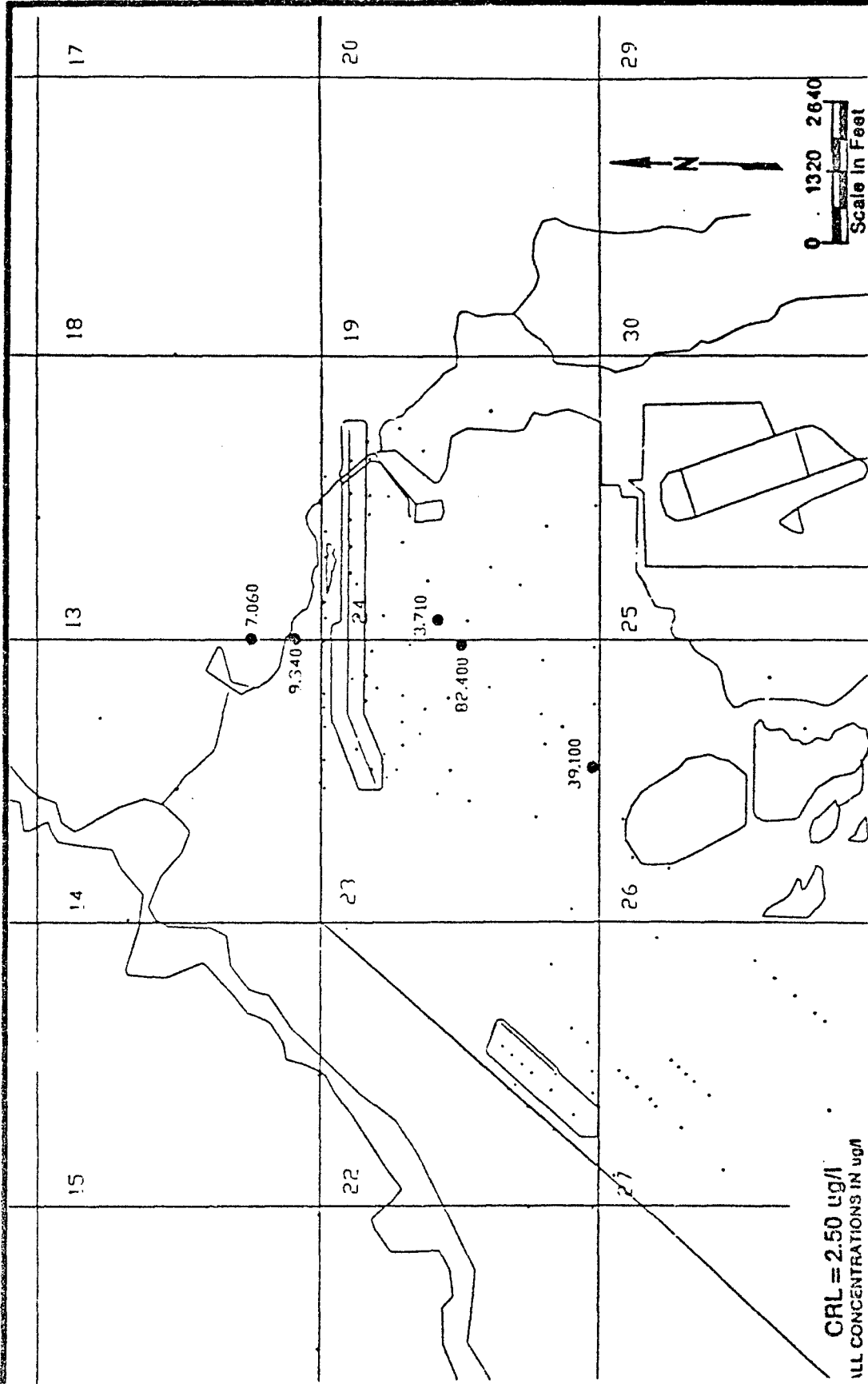


Figure B-89A
FIRST QUARTER, FY87
METHYLENE CHLORIDE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

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U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

Figure B-89B
SECOND QUARTER, FY87
METHYLENE CHLORIDE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

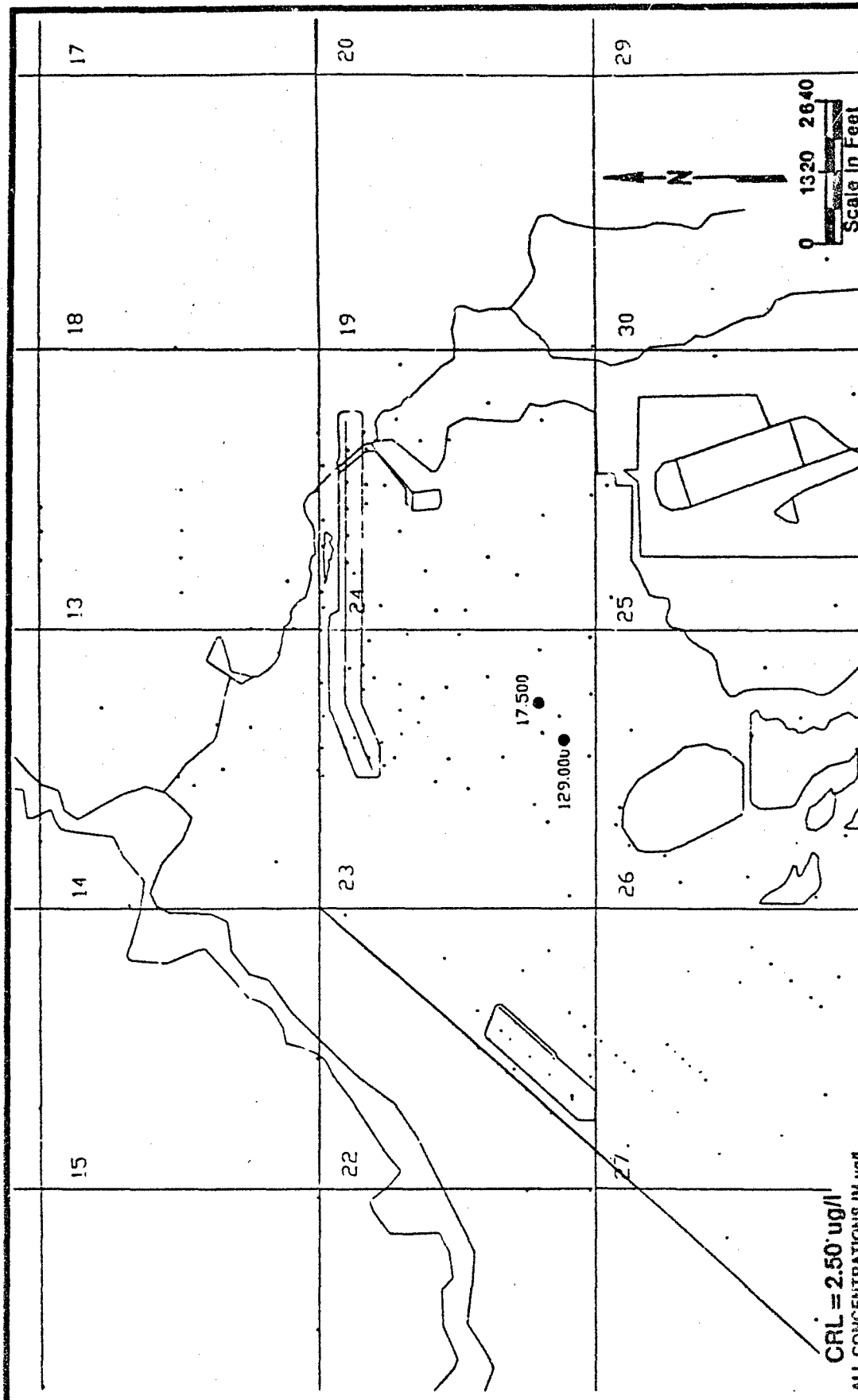


Figure B-89C
THIRD QUARTER, FY 87
METHYLENE CHLORIDE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

Prepared for:
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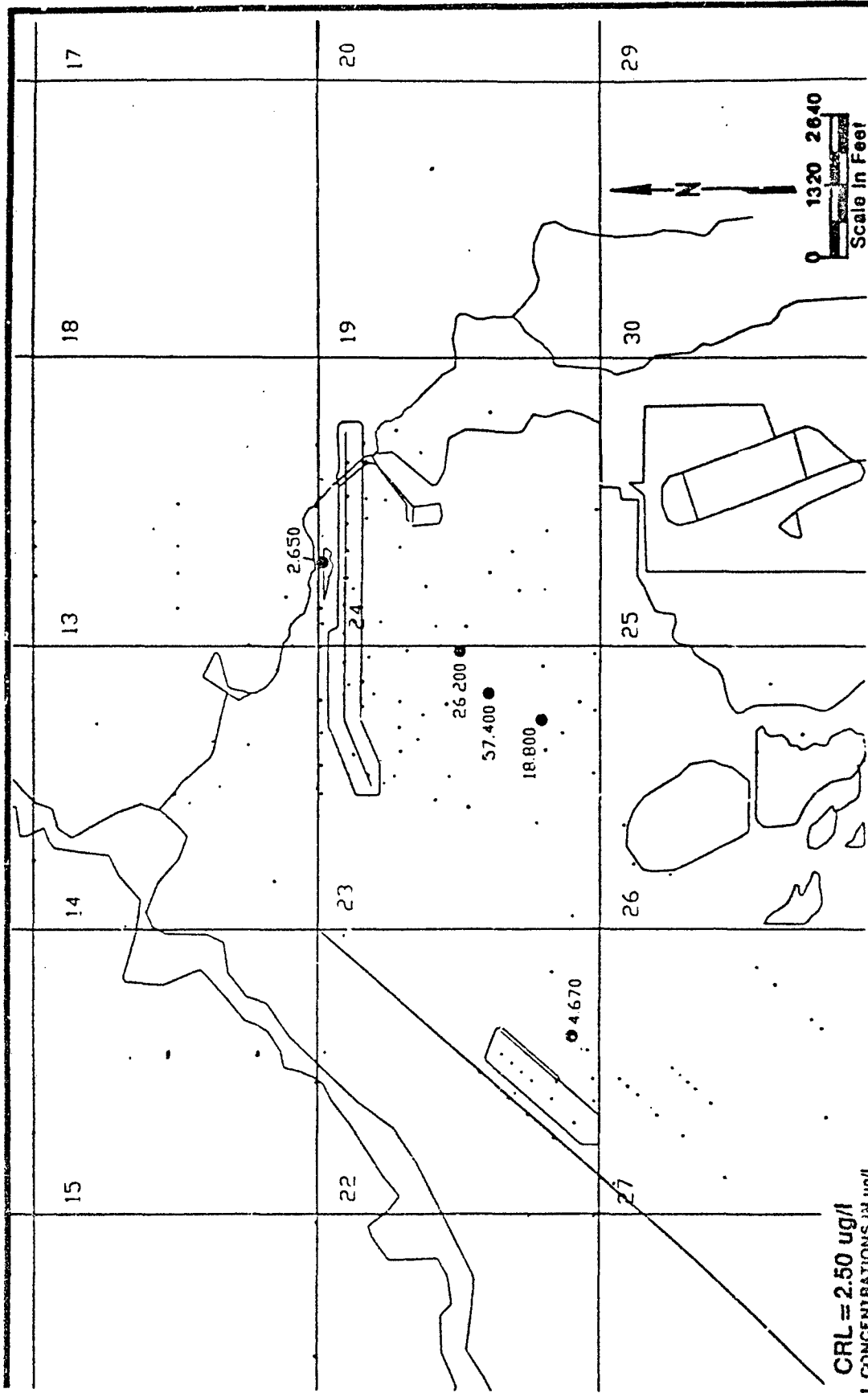
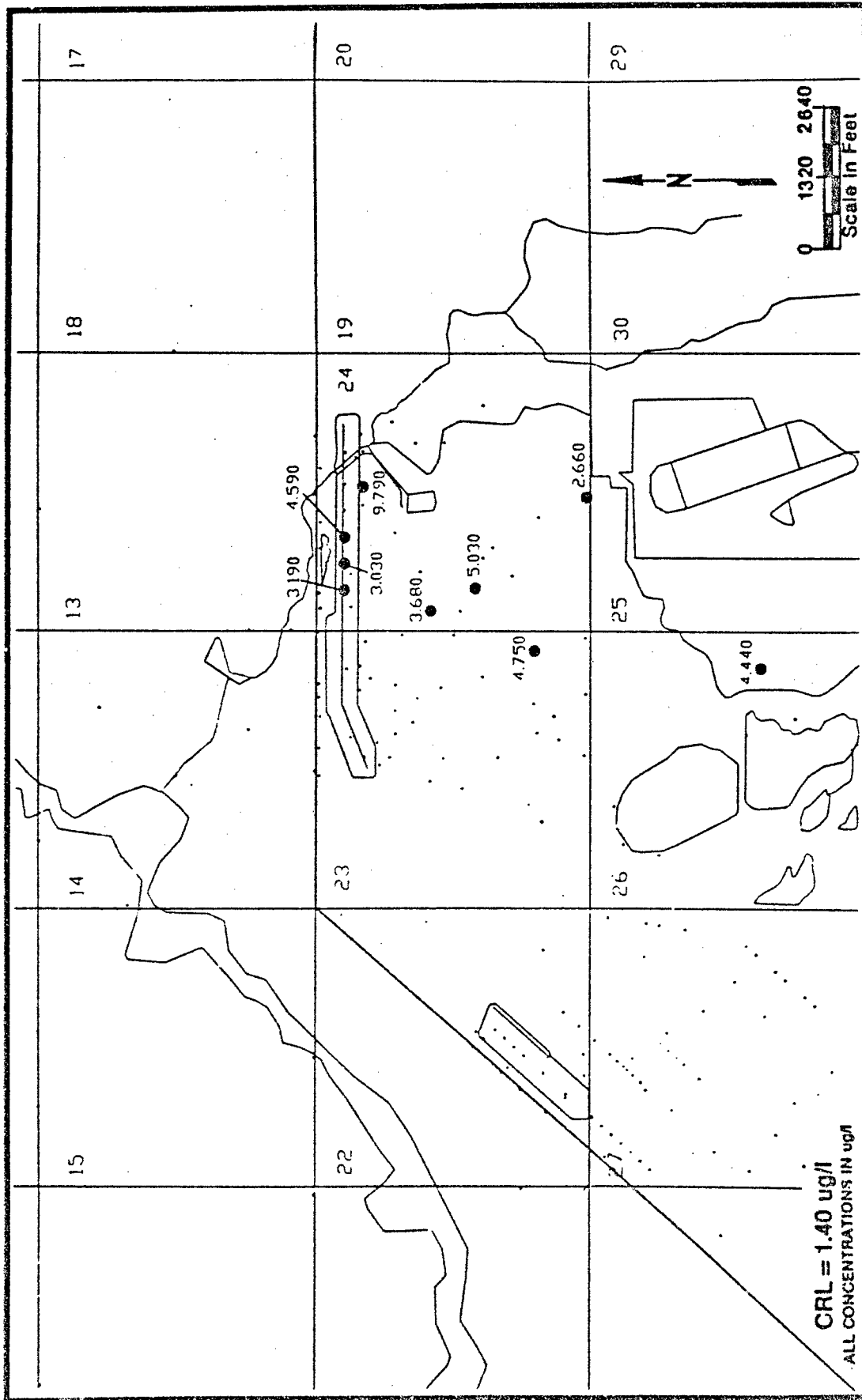


Figure B-89D
FOURTH QUARTER, FY87
METHYLENE CHLORIDE DETECTIONS
ALLUVIAL AQUIFER
 SOURCE: ESE, 12/88

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Aberdeen Proving Ground, Maryland



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Figure B-90A
FIRST QUARTER, FY87
CARBON TETRACHLORIDE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1022

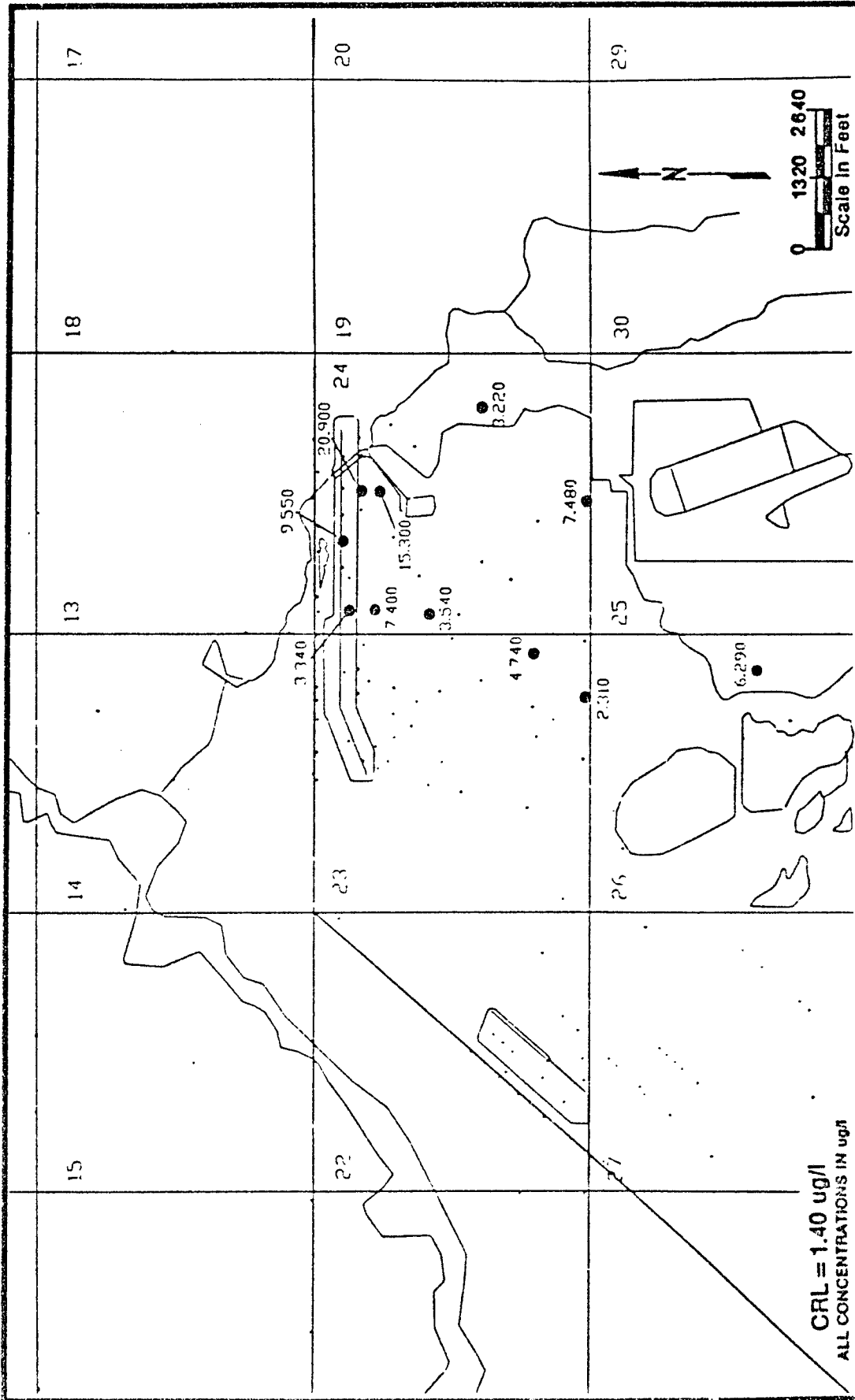


Figure B-90B
SECOND QUARTER FY87
CARBON TETRACHLORIDE DETECTIONS
ALLUVIAL AQUIFER

SOURCE: ESE, 1C38

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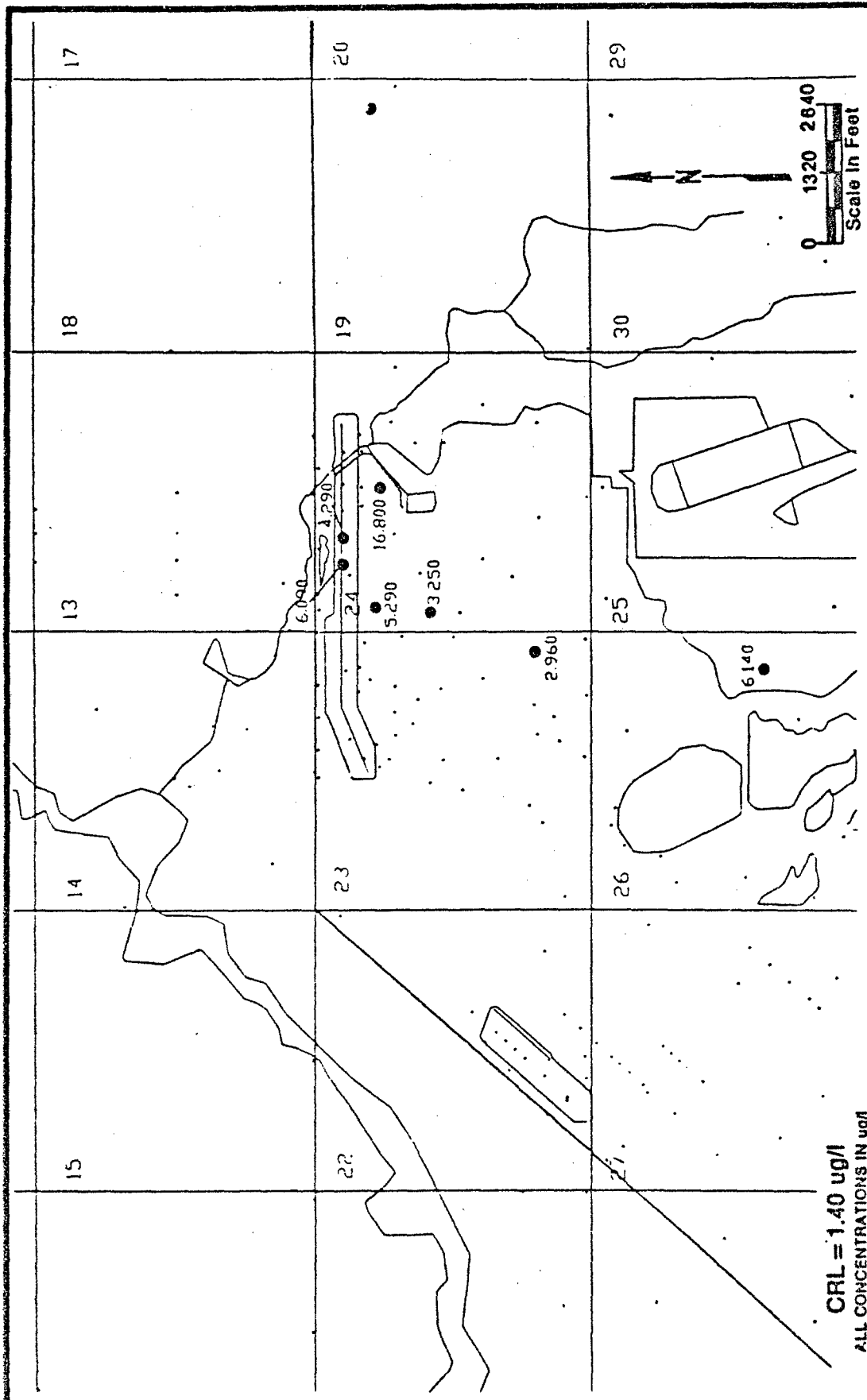


Figure B-90C
THIRD QUARTER, FY87
CARBON TETRACHLORIDE DETECTIONS
ALLUVIAL AQUIFER

SOURCE: ESE, 1988

Prepared for:
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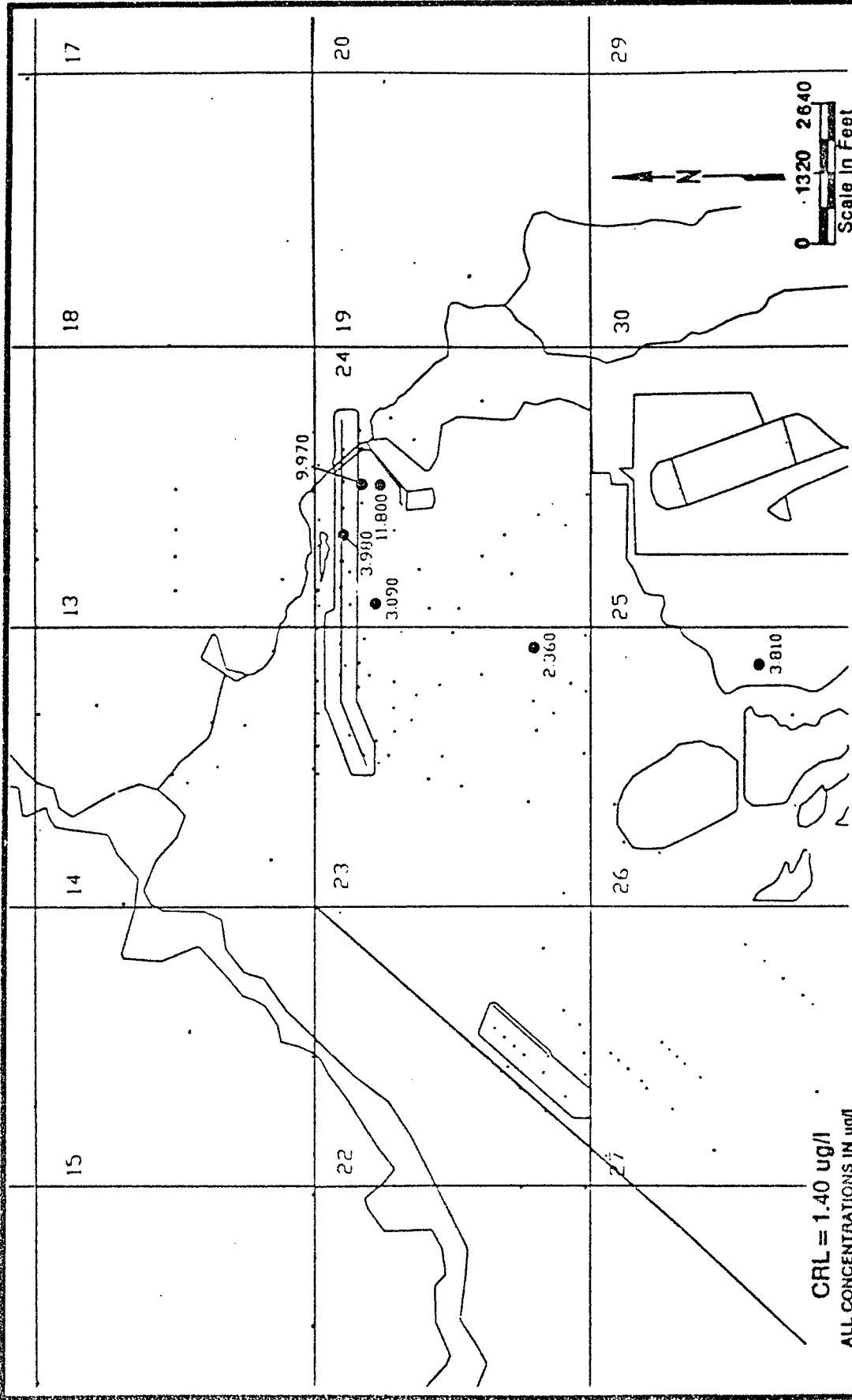
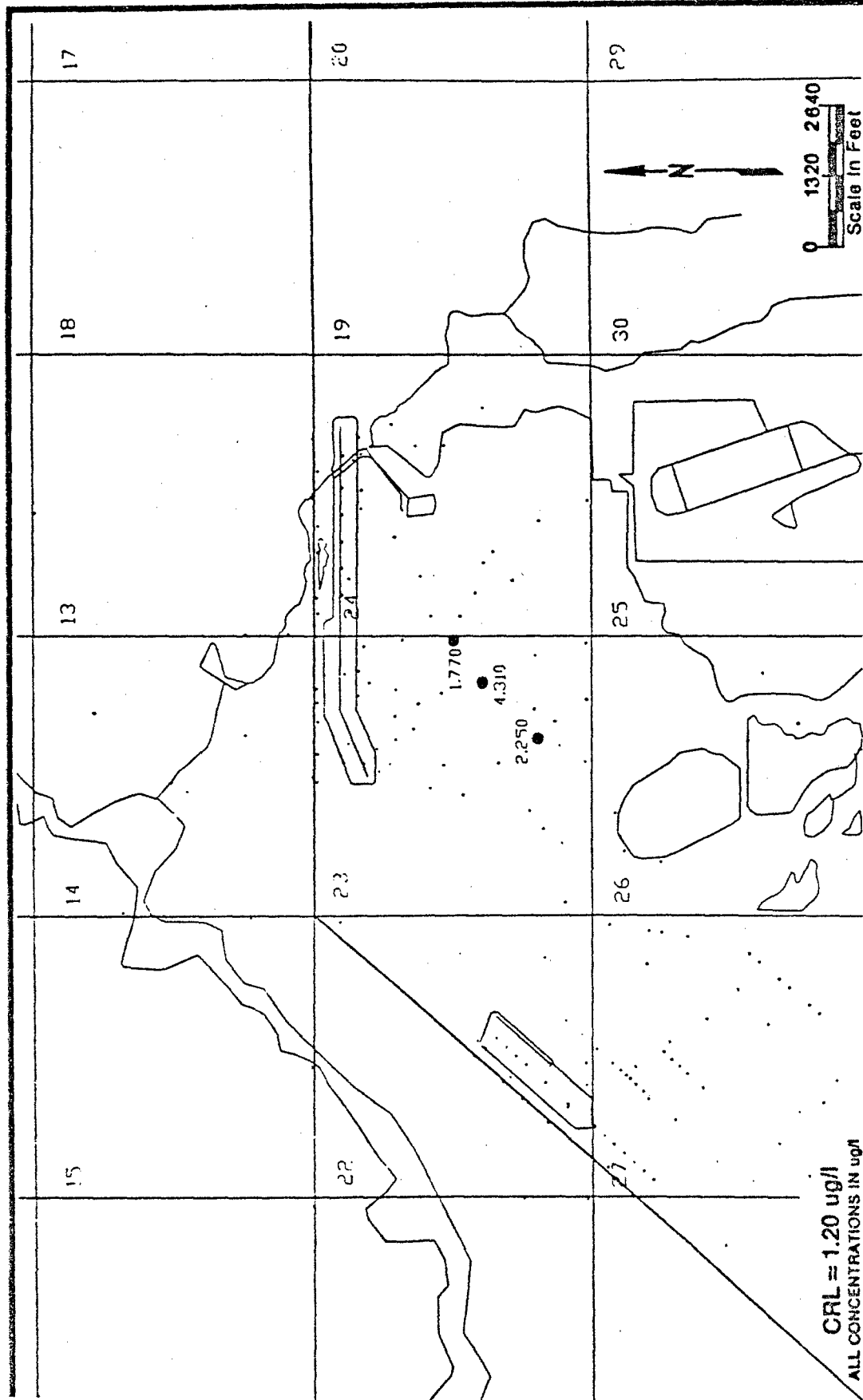


Figure B-90D
FOURTH QUARTER, FY87
CARBON TETRACHLORIDE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

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Figure B-91A
 FIRST QUARTER, FY87
 1,1-DICHLOROETHANE DETECTIONS
 ALLUVIAL AQUIFER
 SOURCE: ESE, 1988

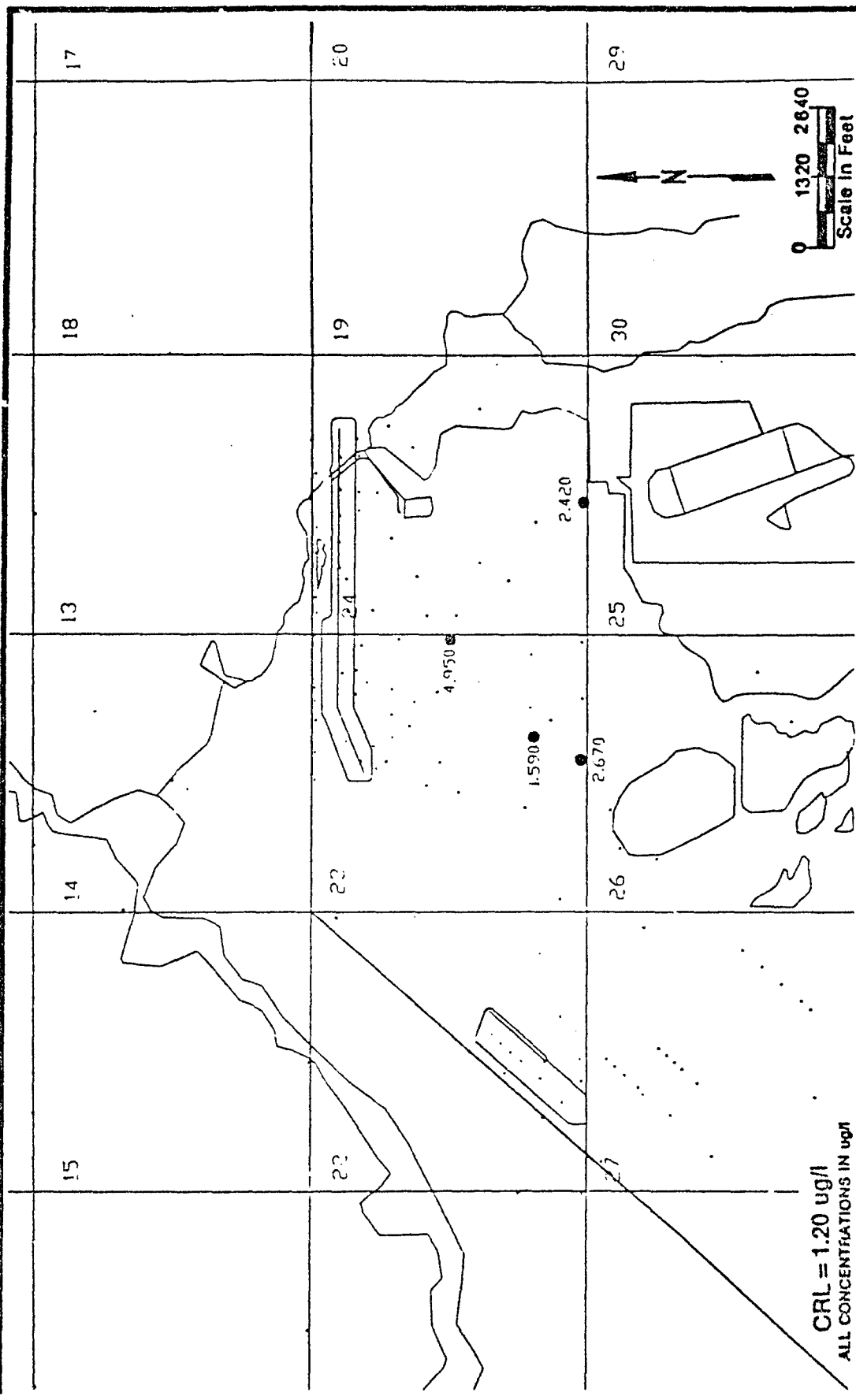


Figure B-91B
SECOND QUARTER, FY87
1,1-DICHLOROETHANE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

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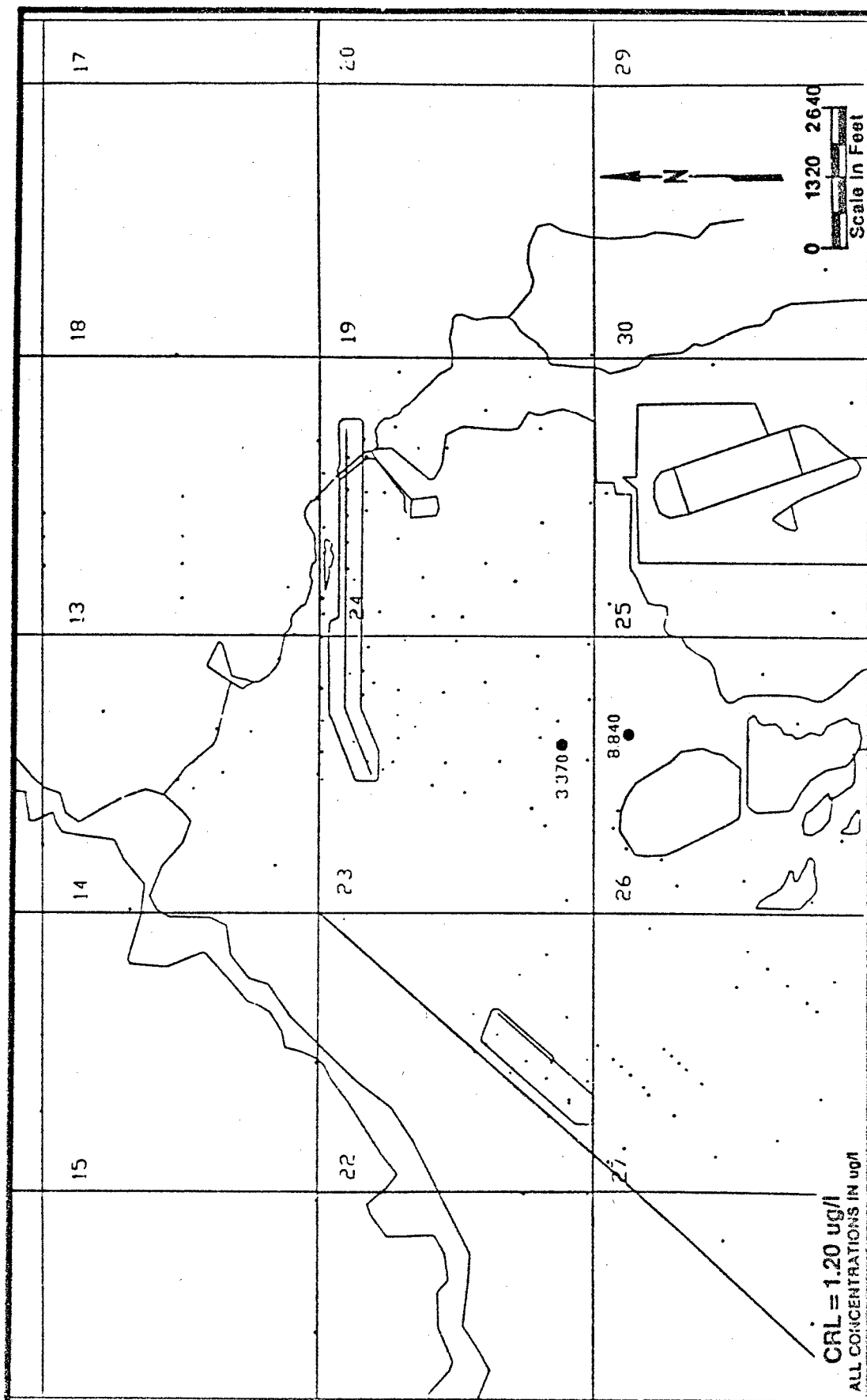


Figure B-91C
THIRD QUARTER, FY87
1,1-DICHLOROETHANE DETECTIONS
ALLUVIAL AQUIFER

SOURCE: ESE, 1989

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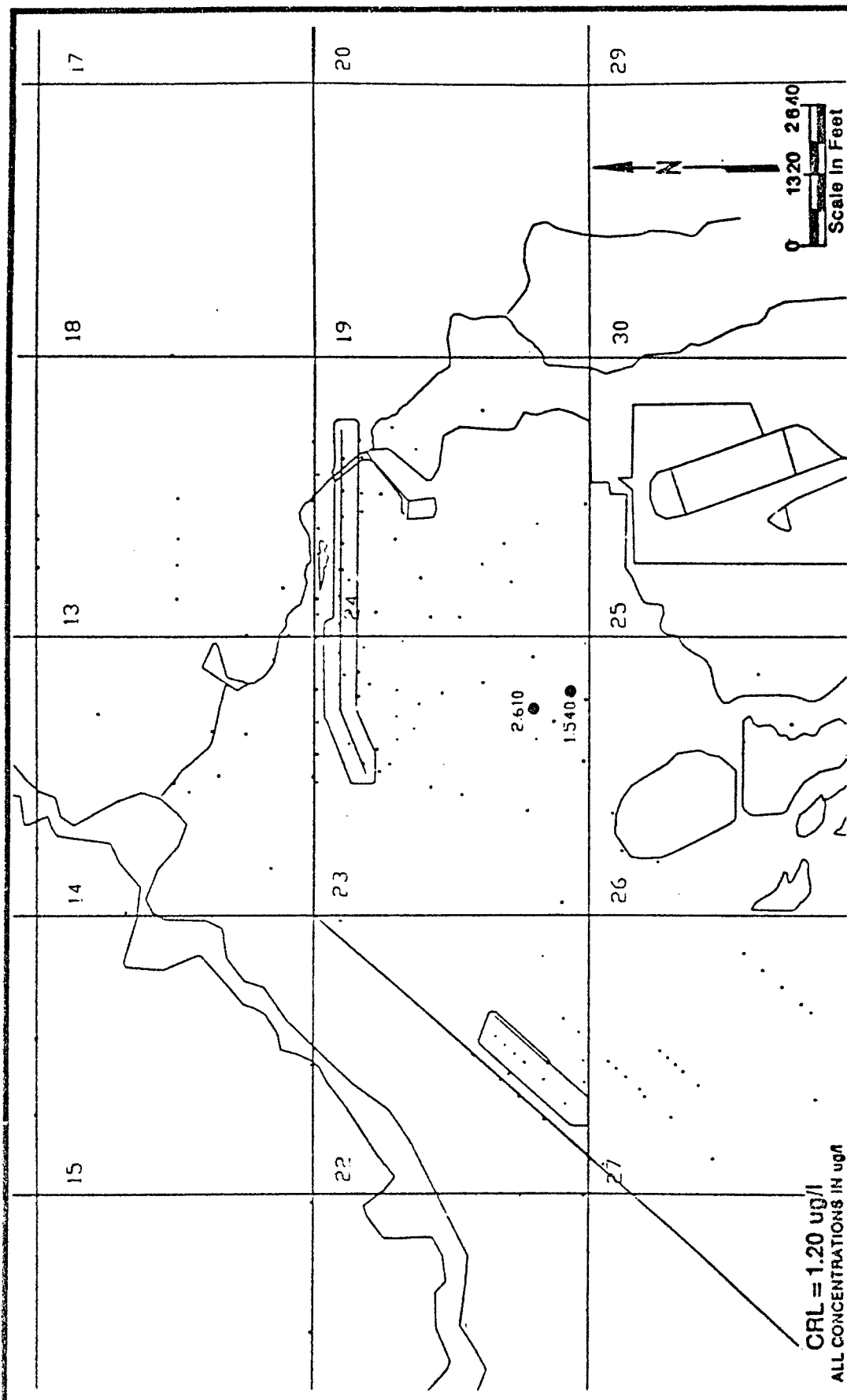
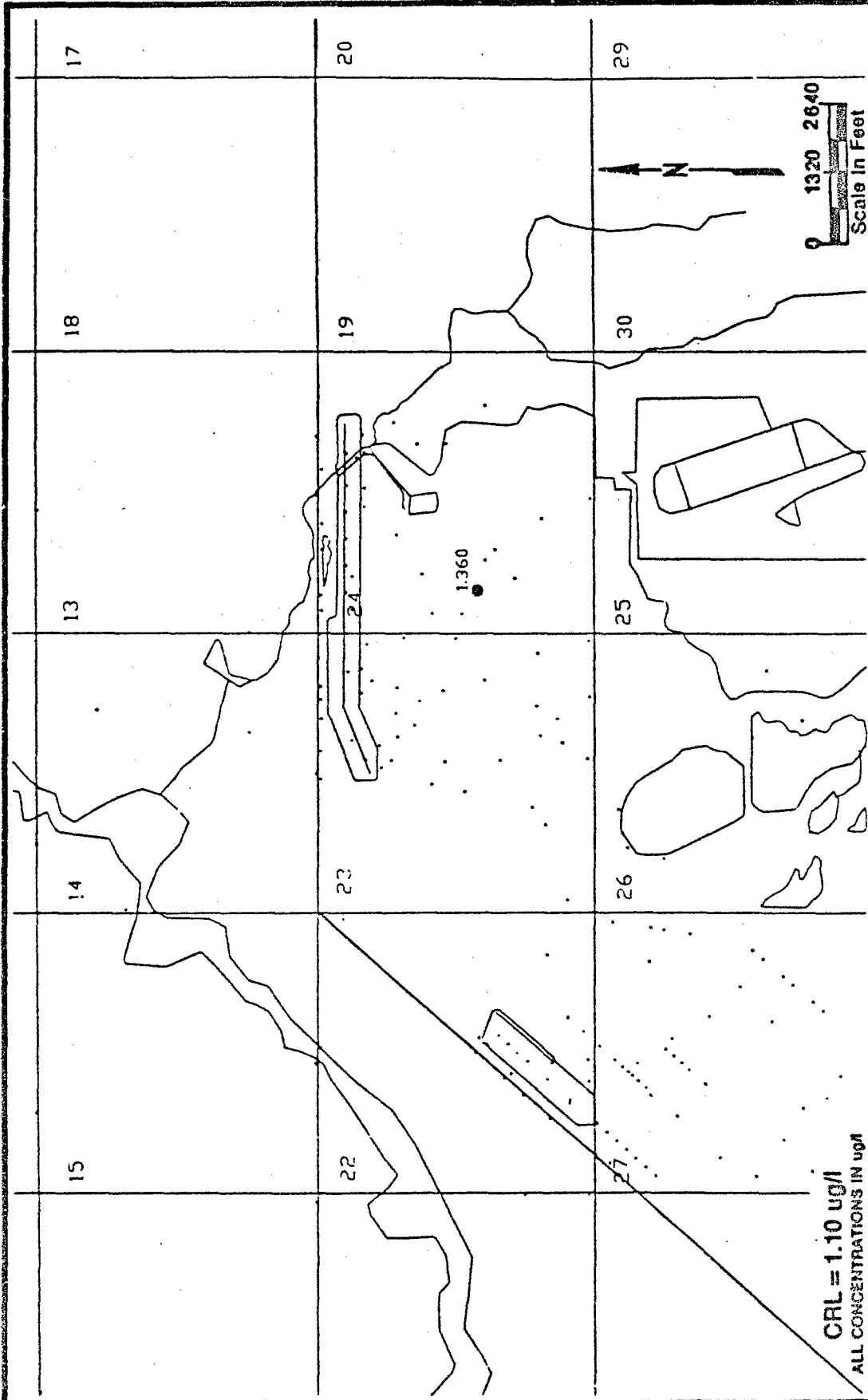
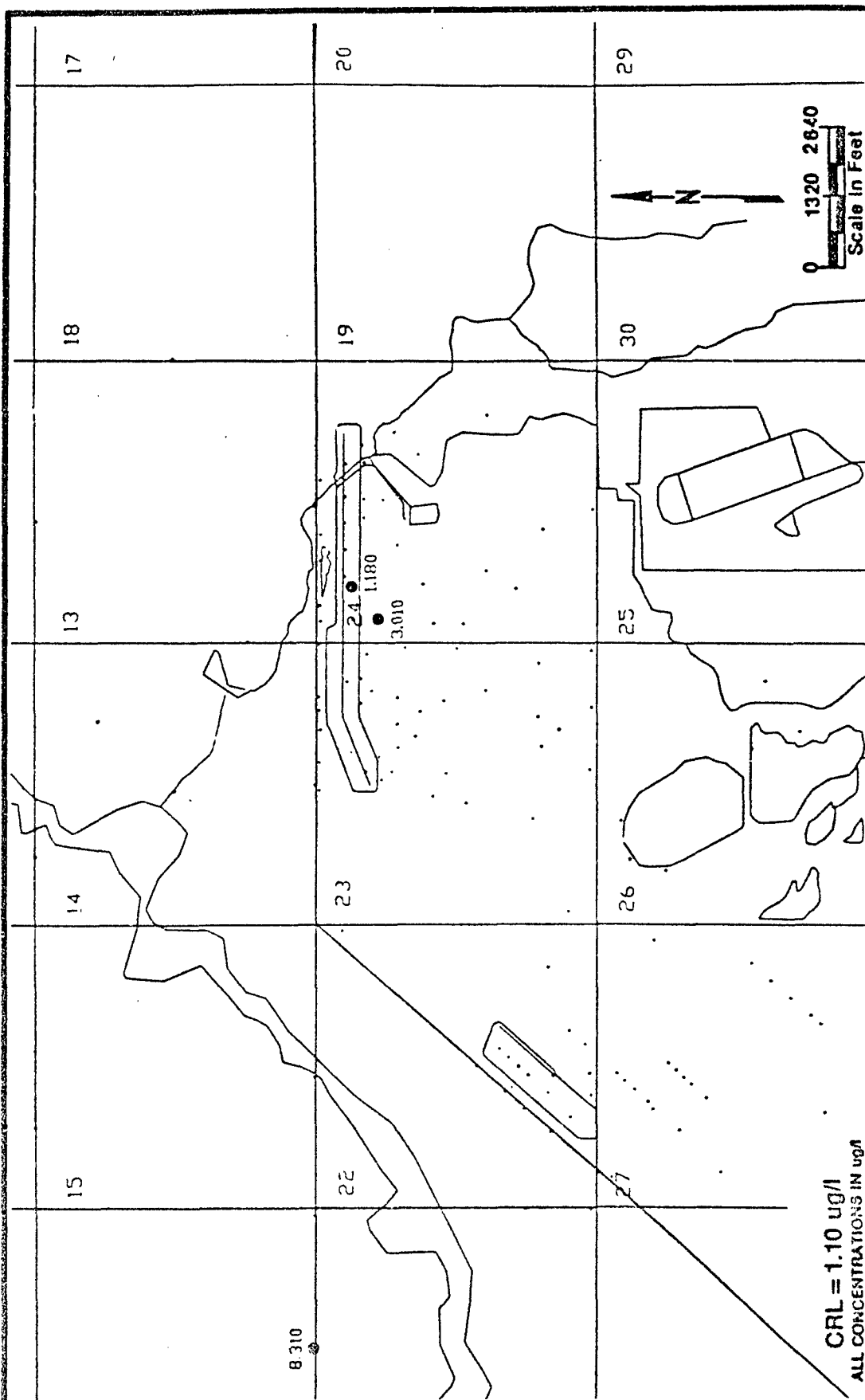


Figure B-91D
FOURTH QUARTER, FY87
1,1-DICHLOROETHANE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1993

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Figure B-92B
SECOND QUARTER, FY87
1,1,1-TRICHLOROETHANE DETECTIONS
ALLUVIAL AQUIFER

SOURCE: ESE, 1988

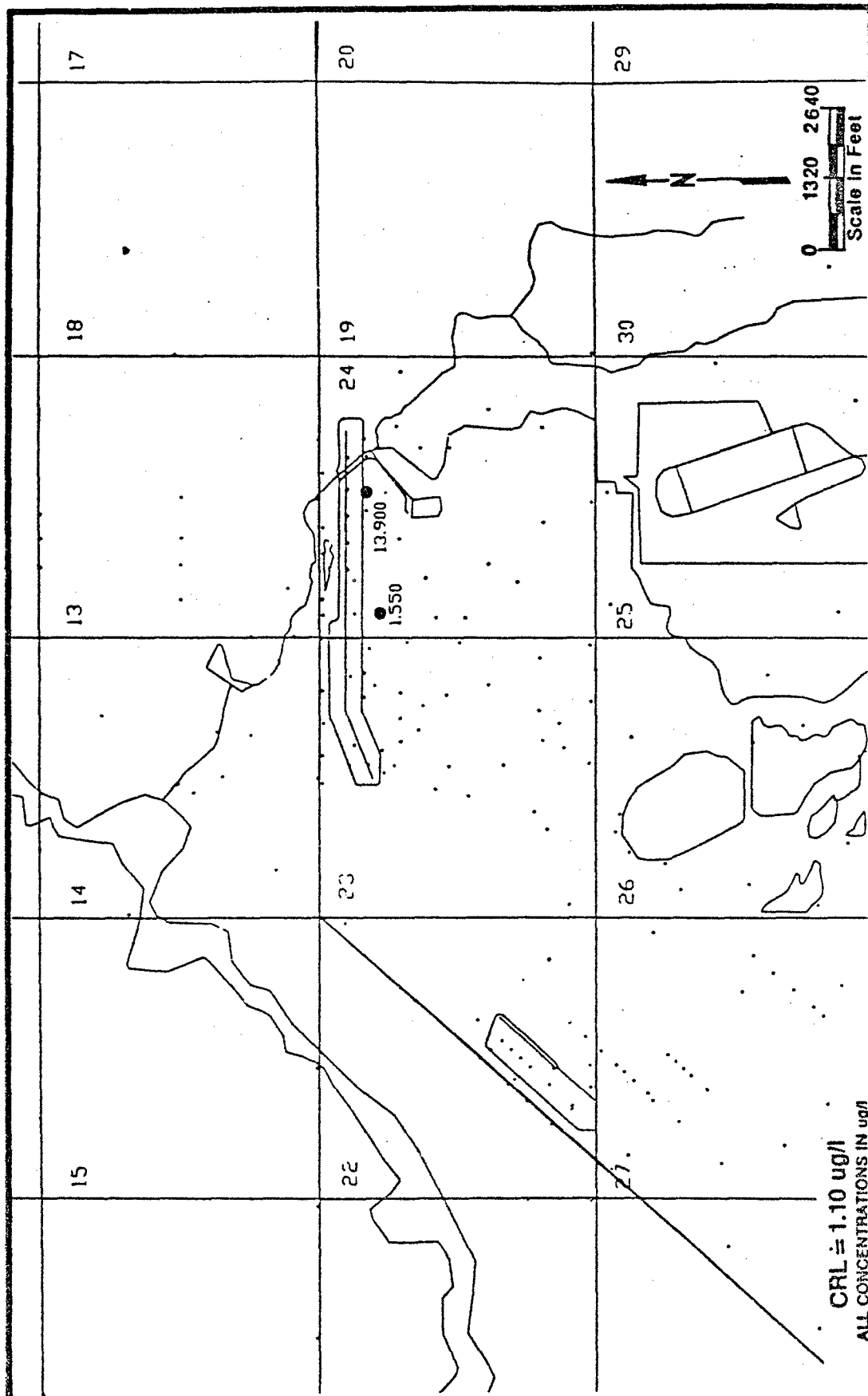
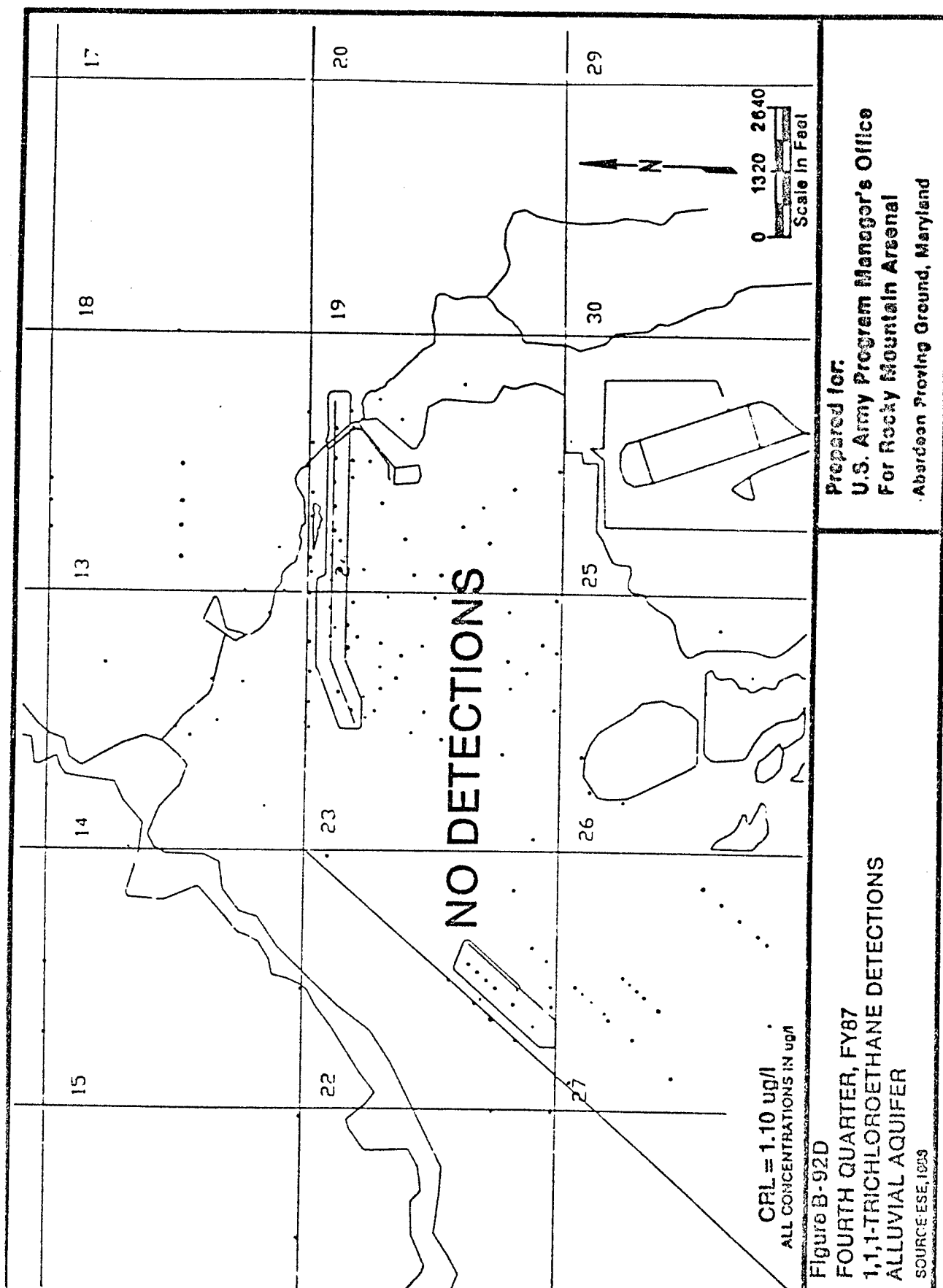


Figure B-92C
 THIRD QUARTER, FY87
 1,1,1-TRICHLOROETHANE DETECTIONS
 ALLUVIAL AQUIFER

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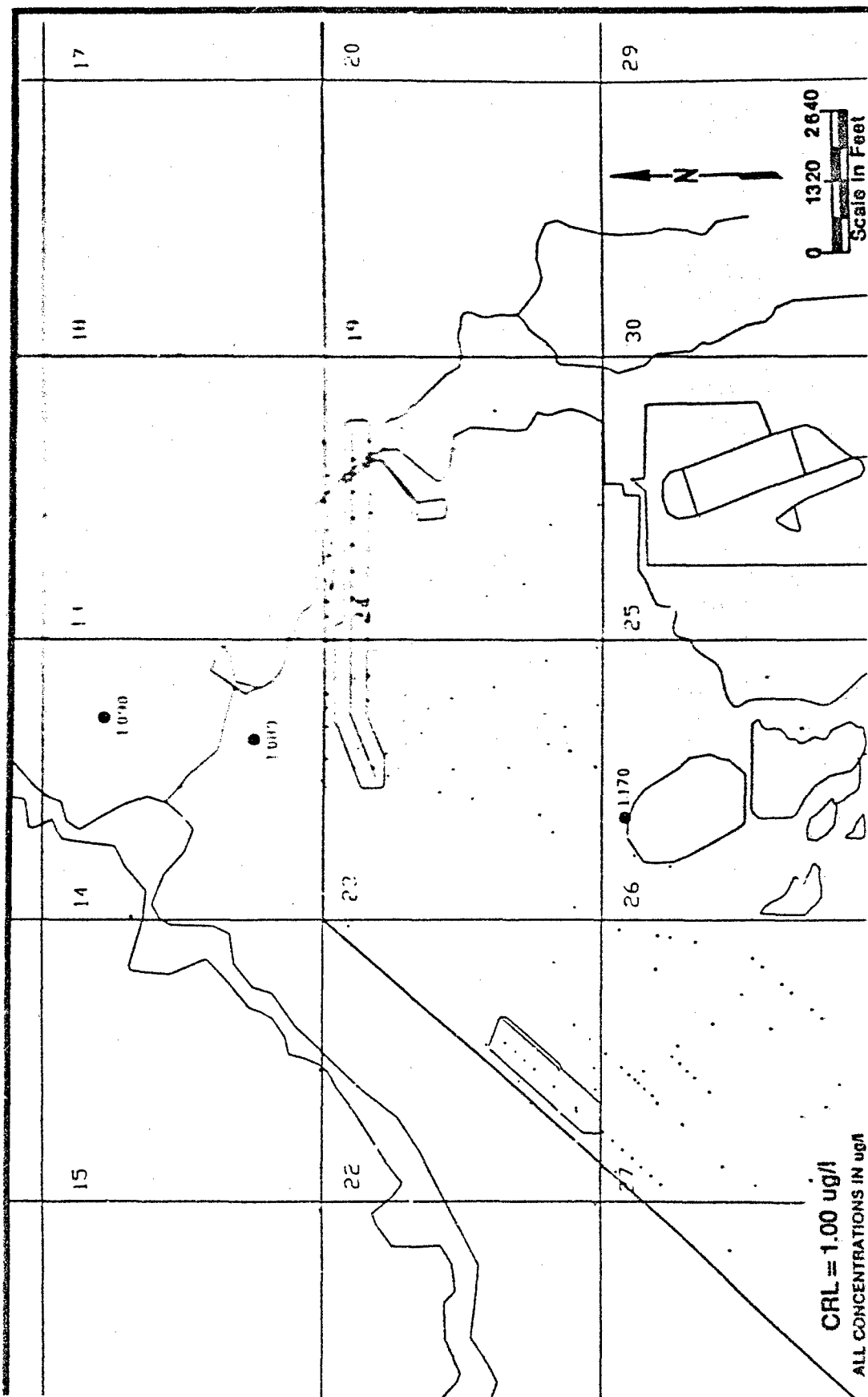
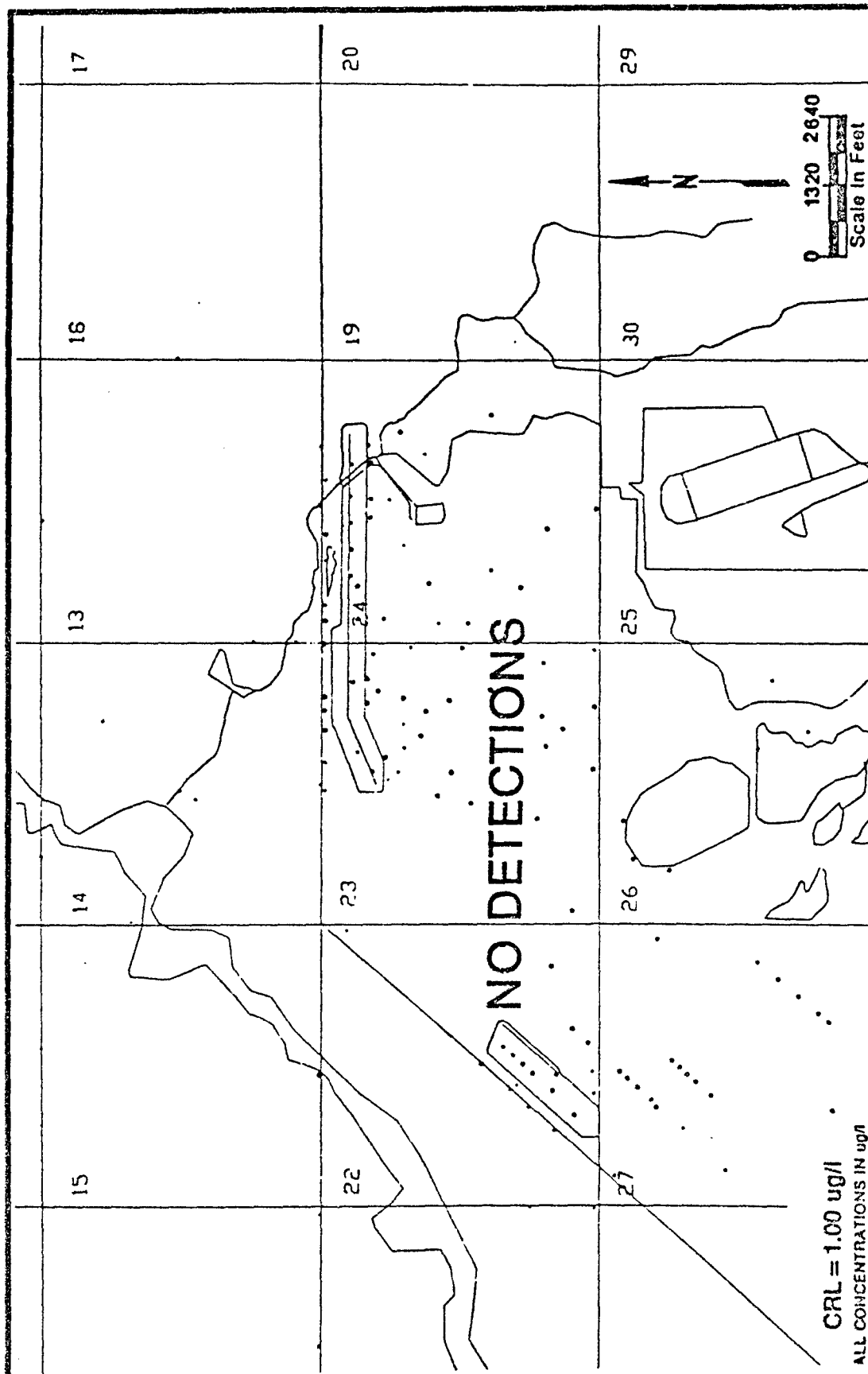


Figure B-93A
FIRST QUARTER, FY87
1,1,2-TRICHLOROETHANE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

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Figure B-93B
SECOND QUARTER, FY87
1,2-TRICHLOROETHANE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

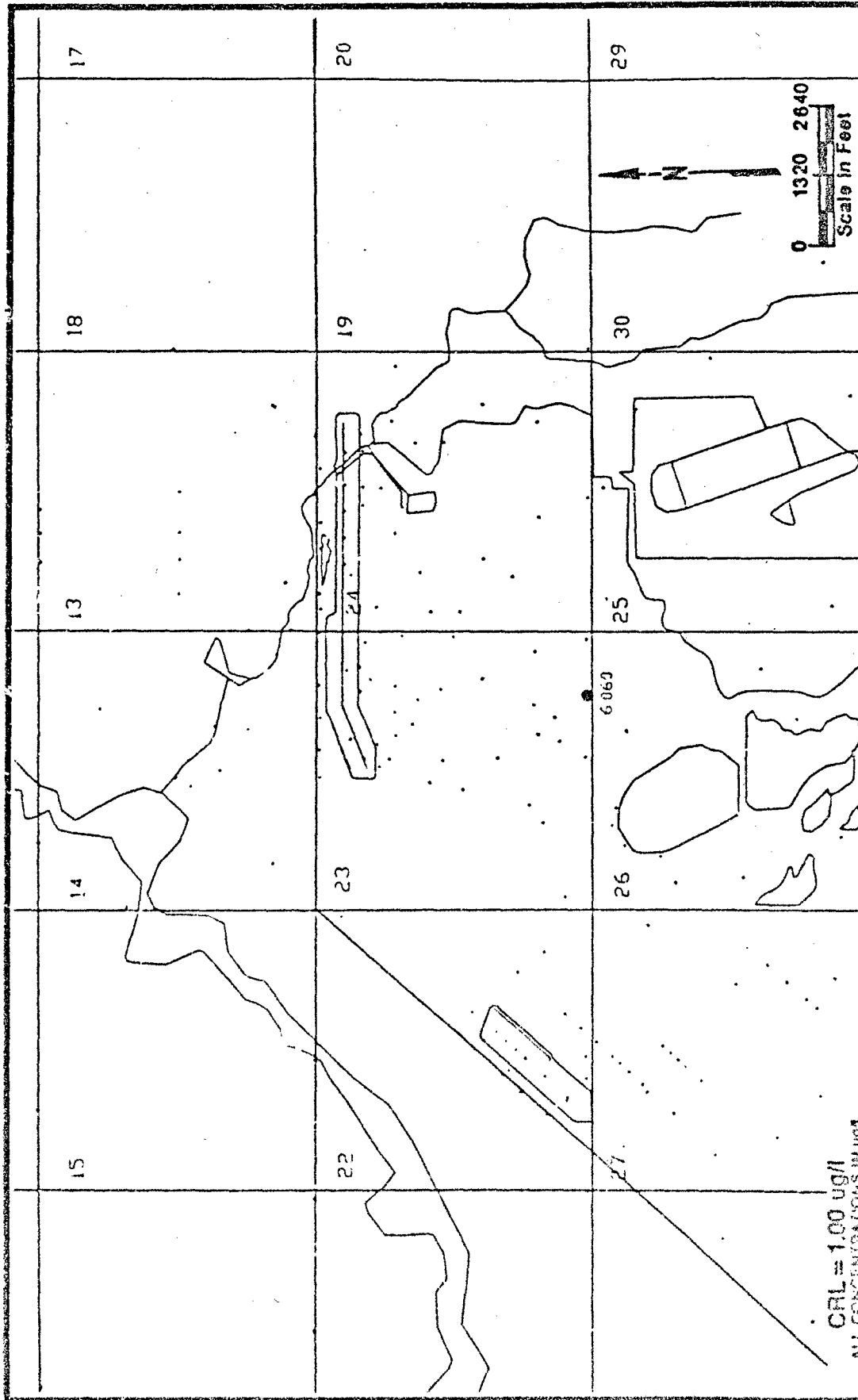


Figure B-33C
THIRD QUARTER, FY 87
1,1,2-TRICHLOROETHANE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

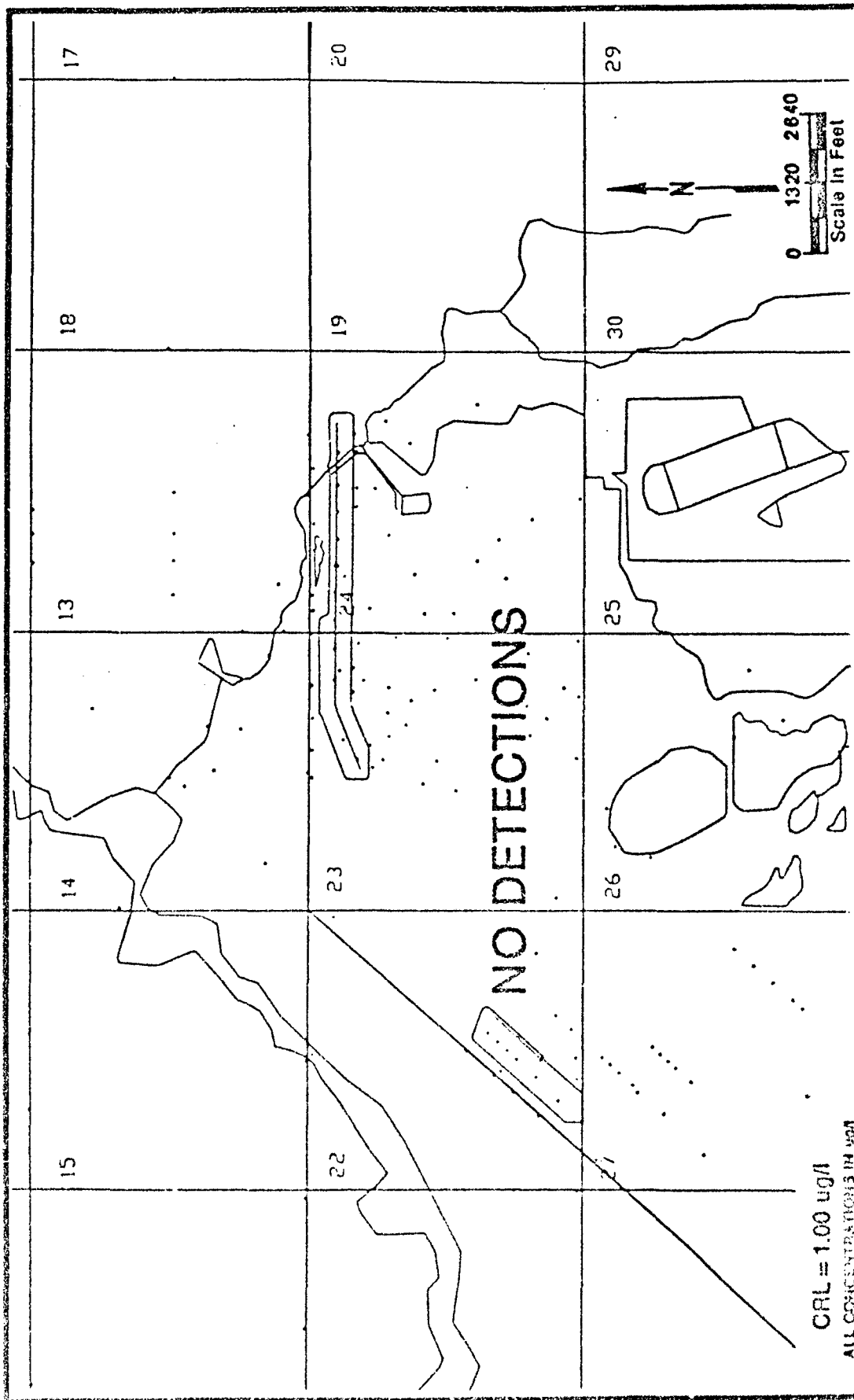
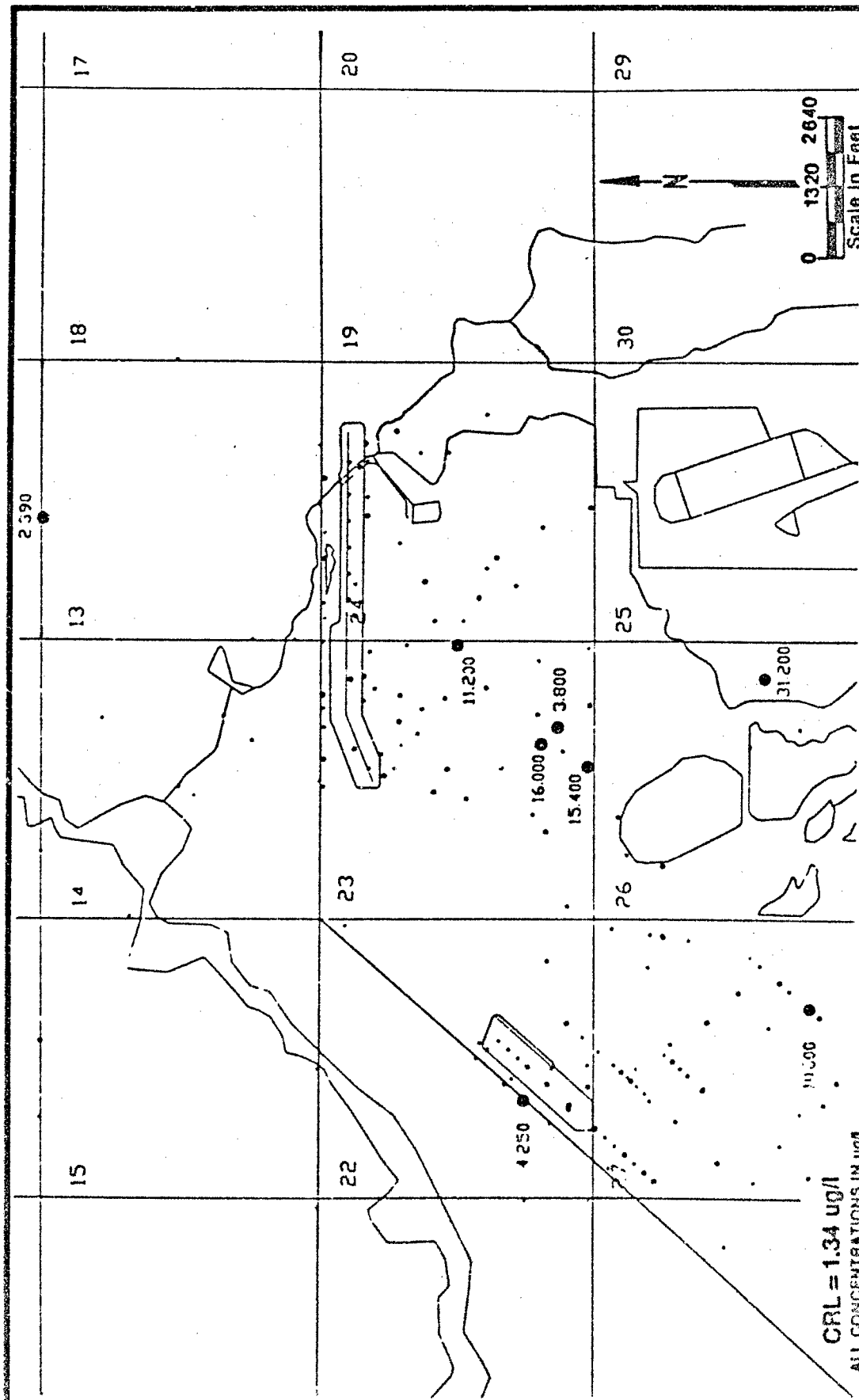


Figure D-53D
FOURTH QUARTER, FY87
1,1,2-TRICHLOROETHANE DETECTIONS
ALLUVIAL AQUIFER

SOURCE: ESE, 1993

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Figure B-94A
 FIRST QUARTER, FY 87
 BENZENE DETECTIONS
 ALLUVIAL AQUIFER
 SOURCE: ESE, 1600

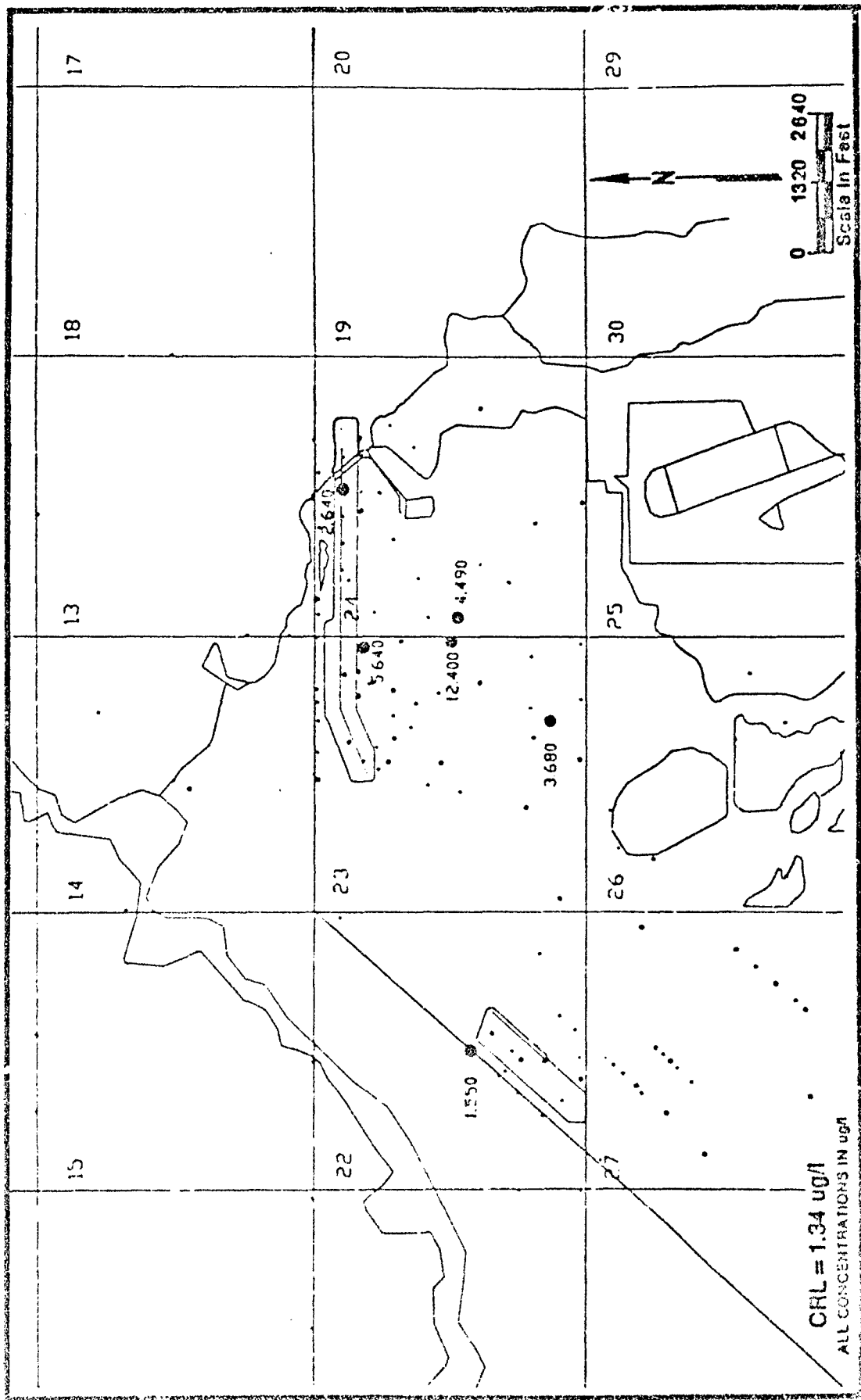


Figure 3-94B
 SECOND QUARTER FY 87
 BENZENE DETECTIONS (ug/l)
 ALLUVIAL AQUIFER

SOURCE: ESE, 1983

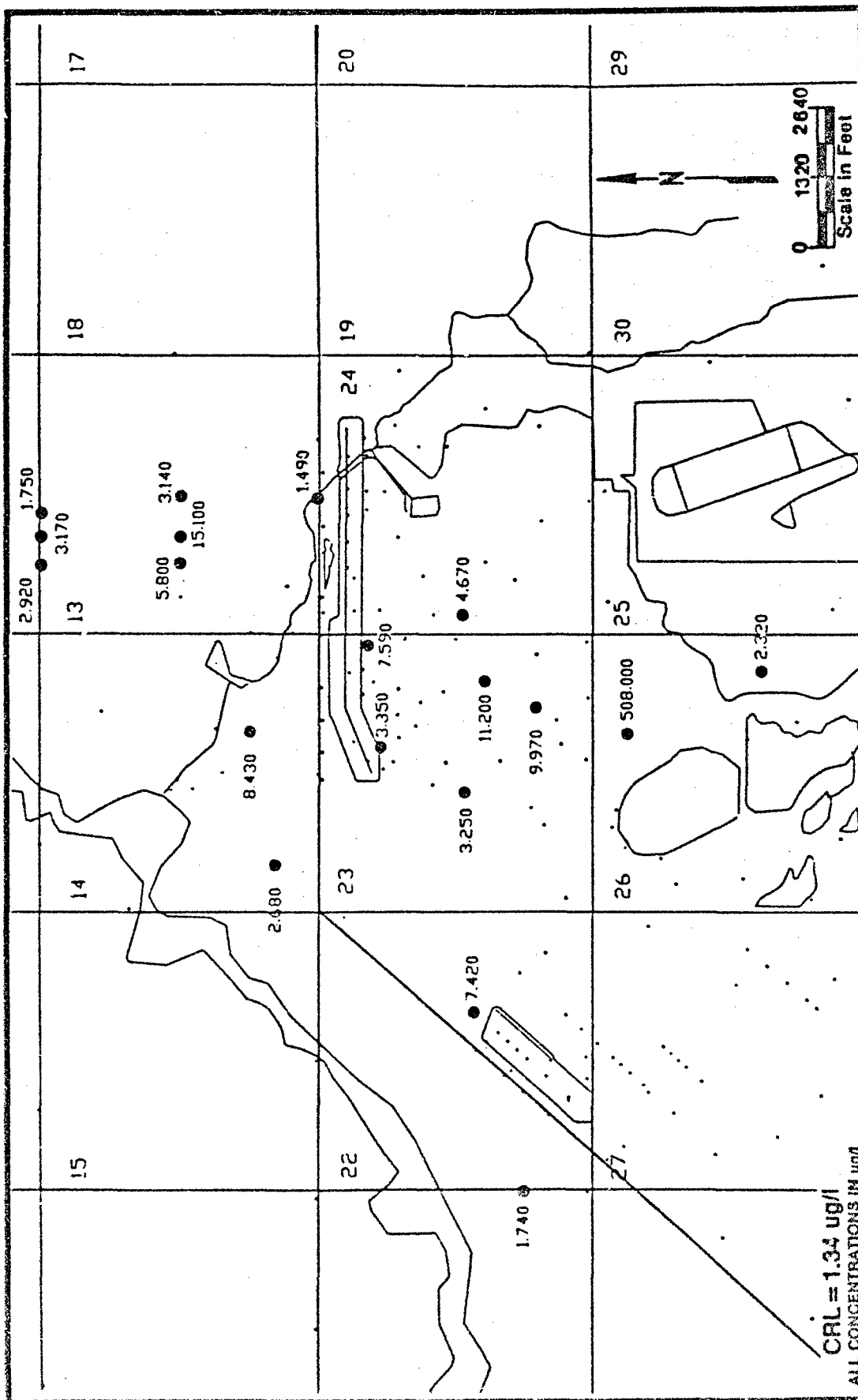


Figure B-94C
 THIRD QUARTER, FY87
 BENZENE DETECTIONS
 ALLUVIAL AQUIFER

SOURCE ESE 1300

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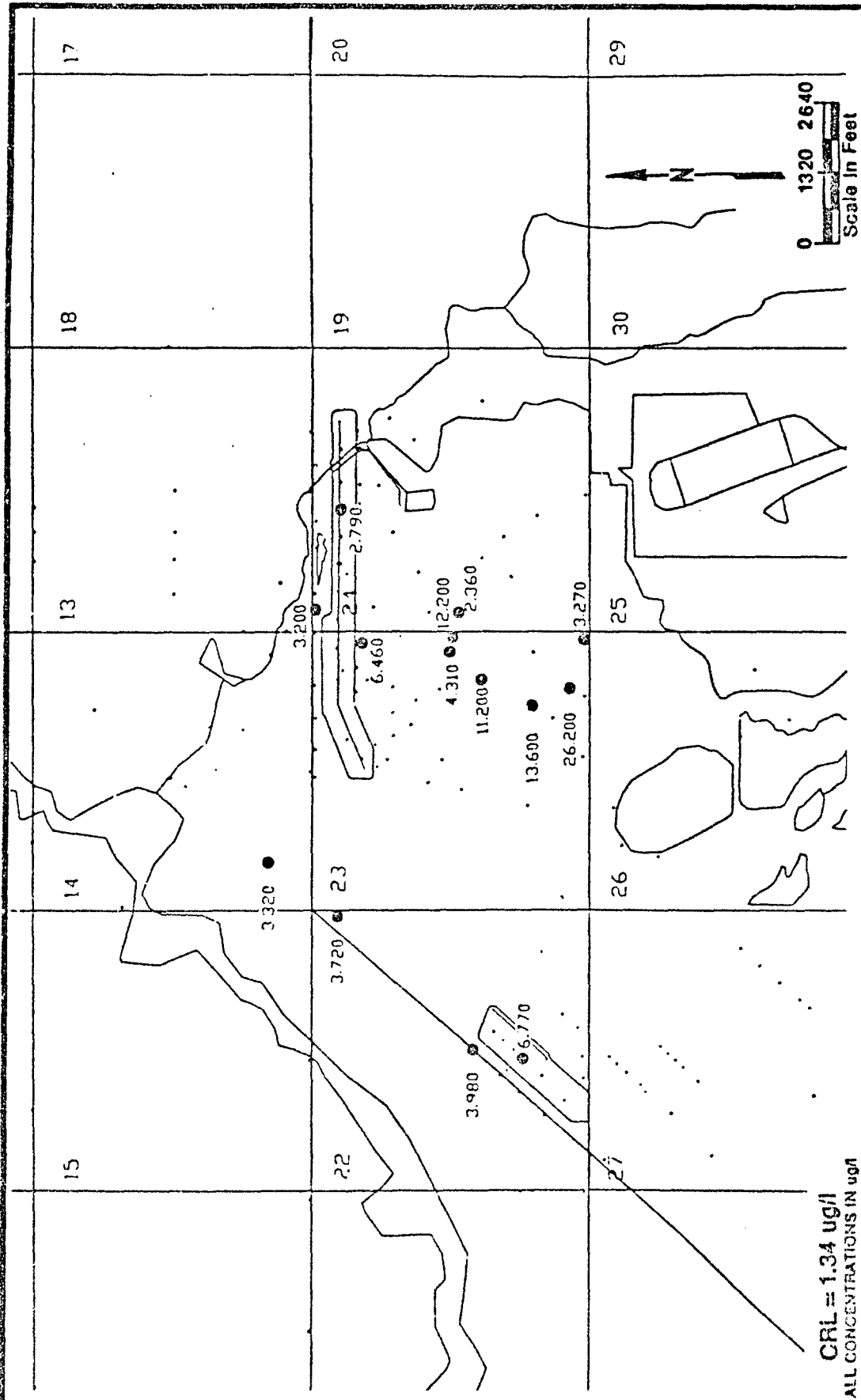


Figure B-94D
 FOURTH QUARTER FY, 1987
 BENZENE DETECTIONS
 ALLUVIAL AQUIFER
 SOURCE: ESE, 1988

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 Aberdeen Proving Ground, Maryland

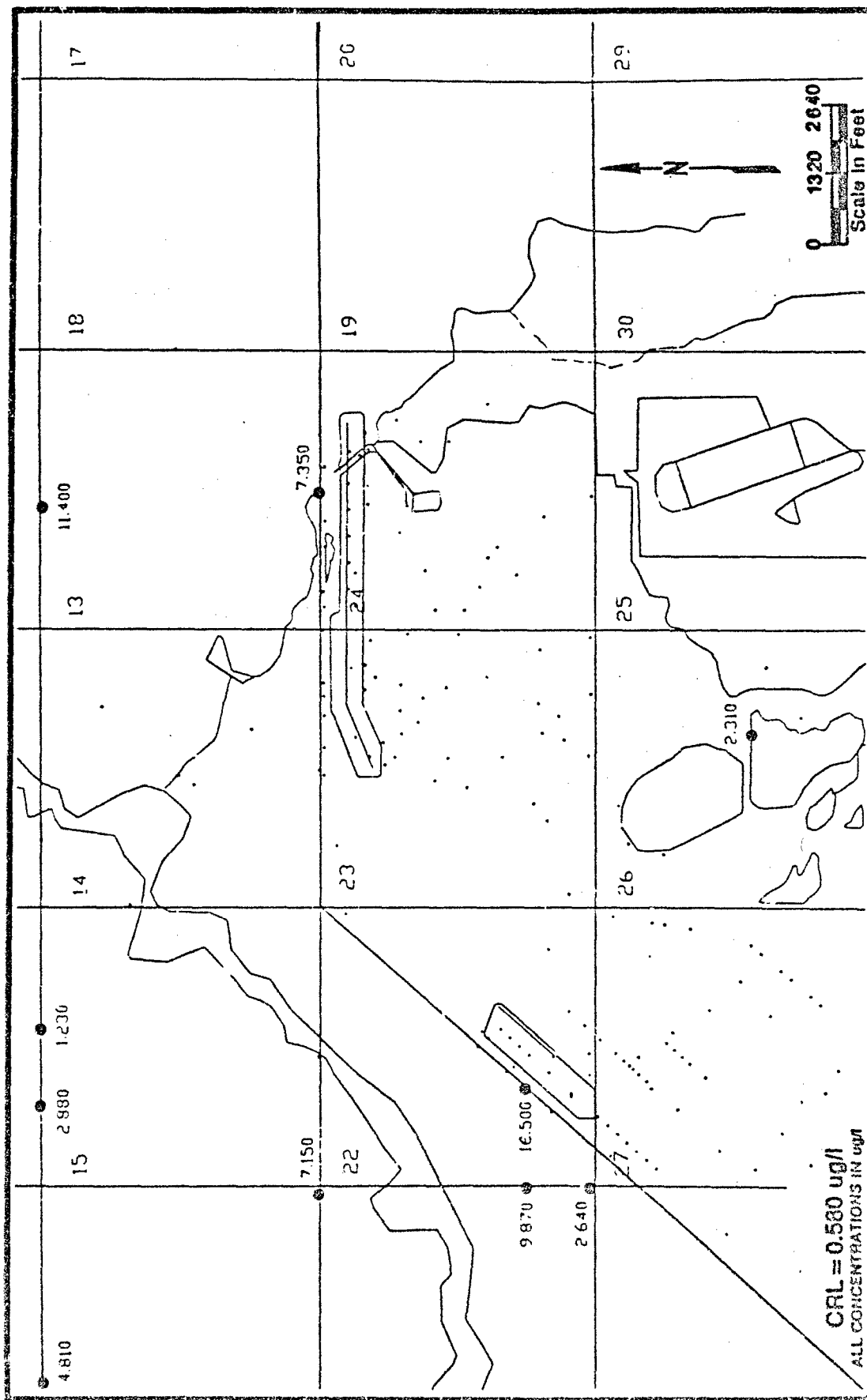


Figure B-95A
FIRST QUARTER, FY87
CHLOROBENZENE DETECTIONS
ALLUVIAL AQUIFER

SOURCE: ESE, 1989

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Aberdeen Proving Ground, Maryland

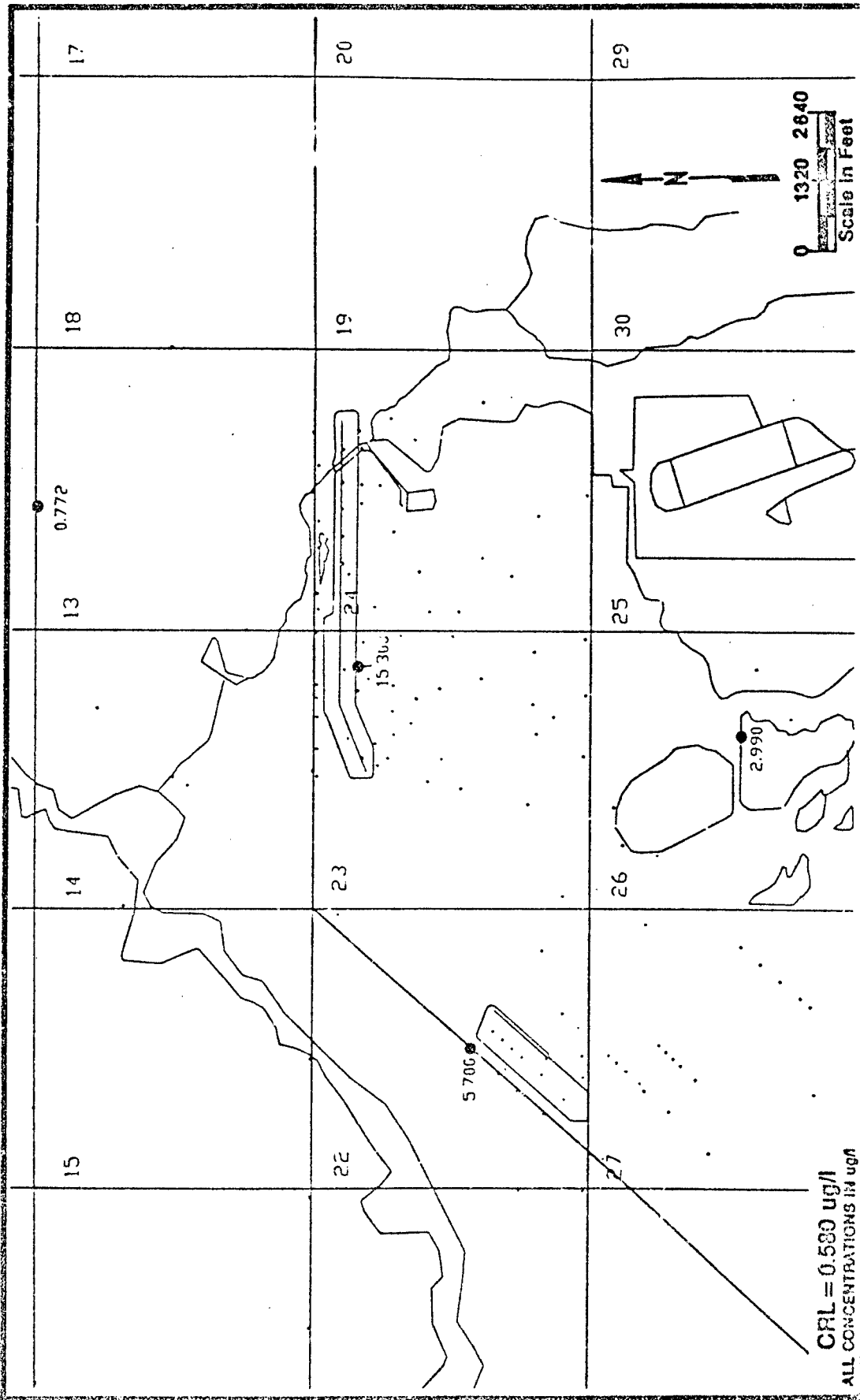
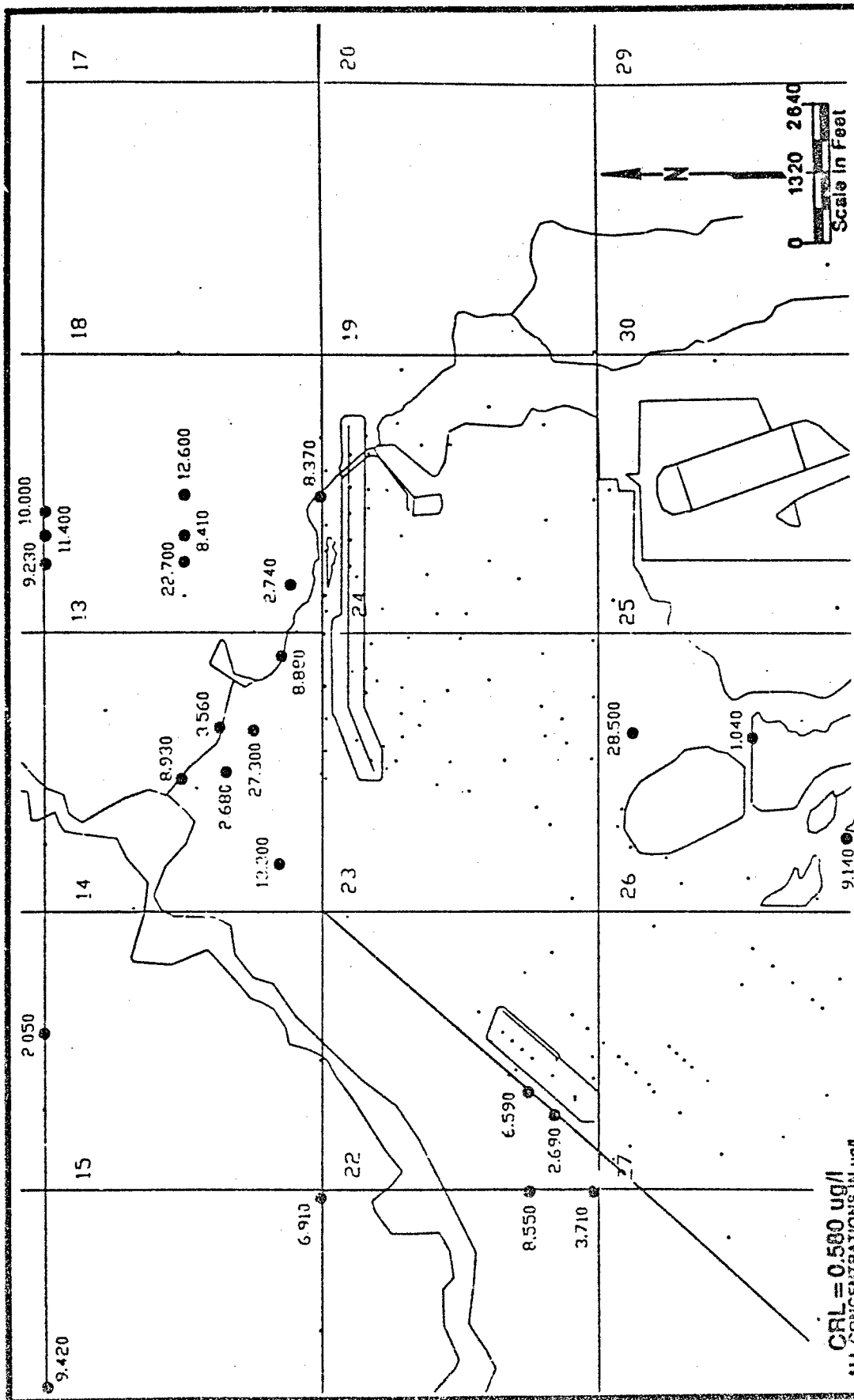


Figure B-95B
 SECOND QUARTER, FY 87
 CHLOROBENZENE DETECTIONS
 ALLUVIAL AQUIFER
 SOURCE: ESE, 1990

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Figure B-95C
 THIRD QUARTER, FY87
 CHLOROBENZENE DETECTIONS
 ALLUVIAL AQUIFER
 SOURCE: ESE, 10/88

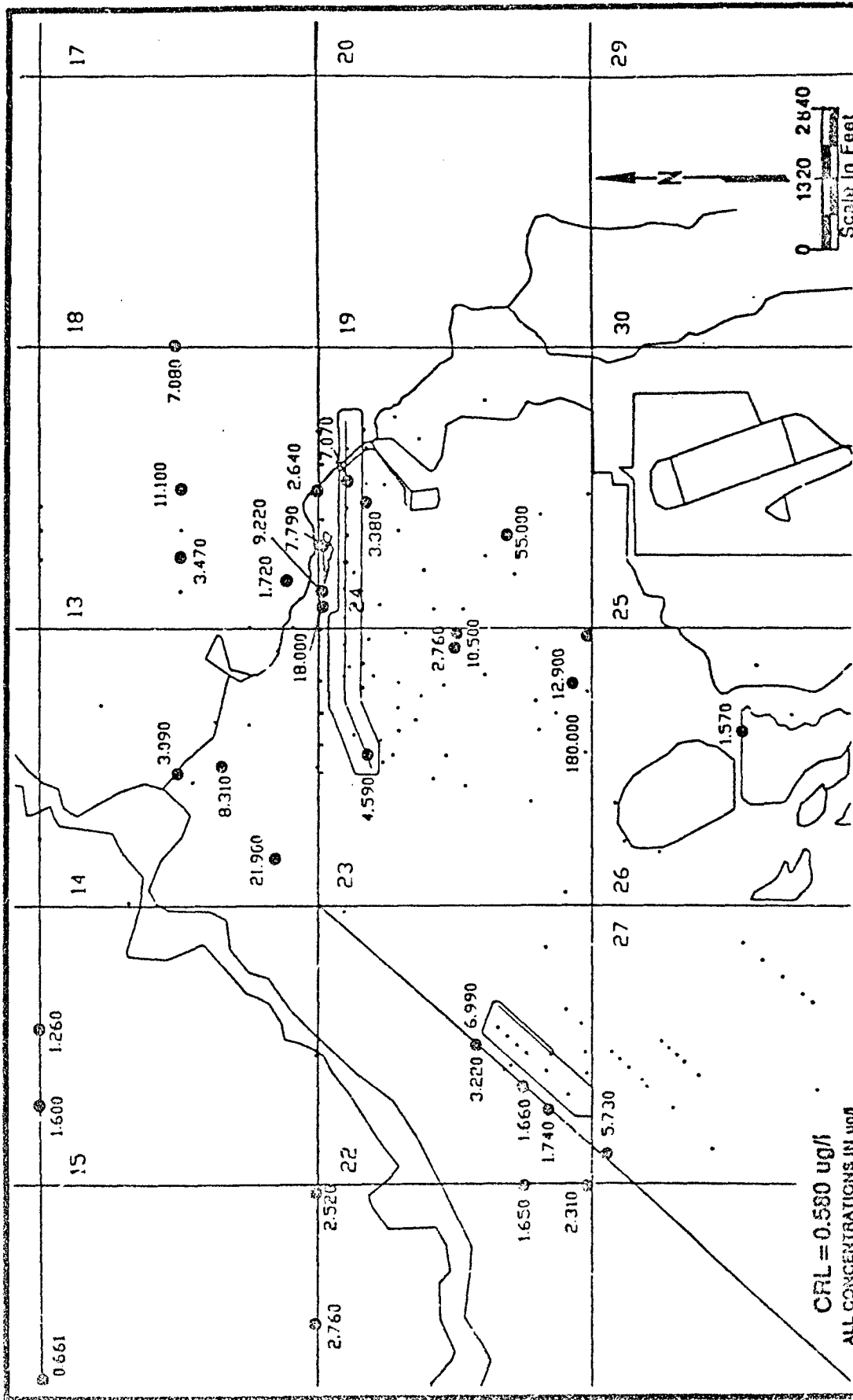


Figure B-95D
 FOURTH QUARTER, FY87
 CHLOROBENZENE DETECTIONS
 ALLUVIAL AQUIFER

SOURCE: EOE, 1980

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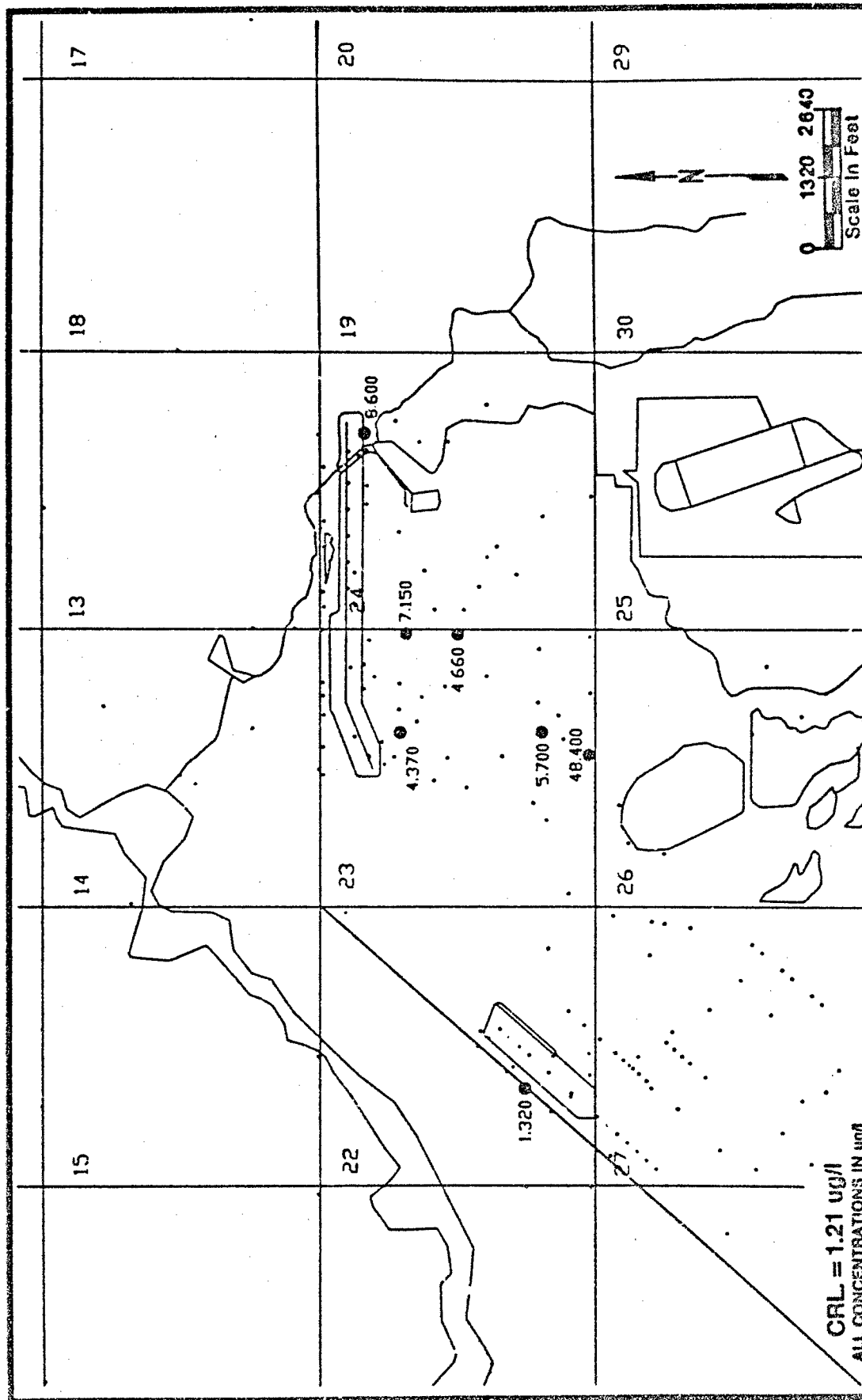


Figure B-95A
FIRST QUARTER, FY87
TOLUENE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988

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Aberdeen Proving Ground, Maryland

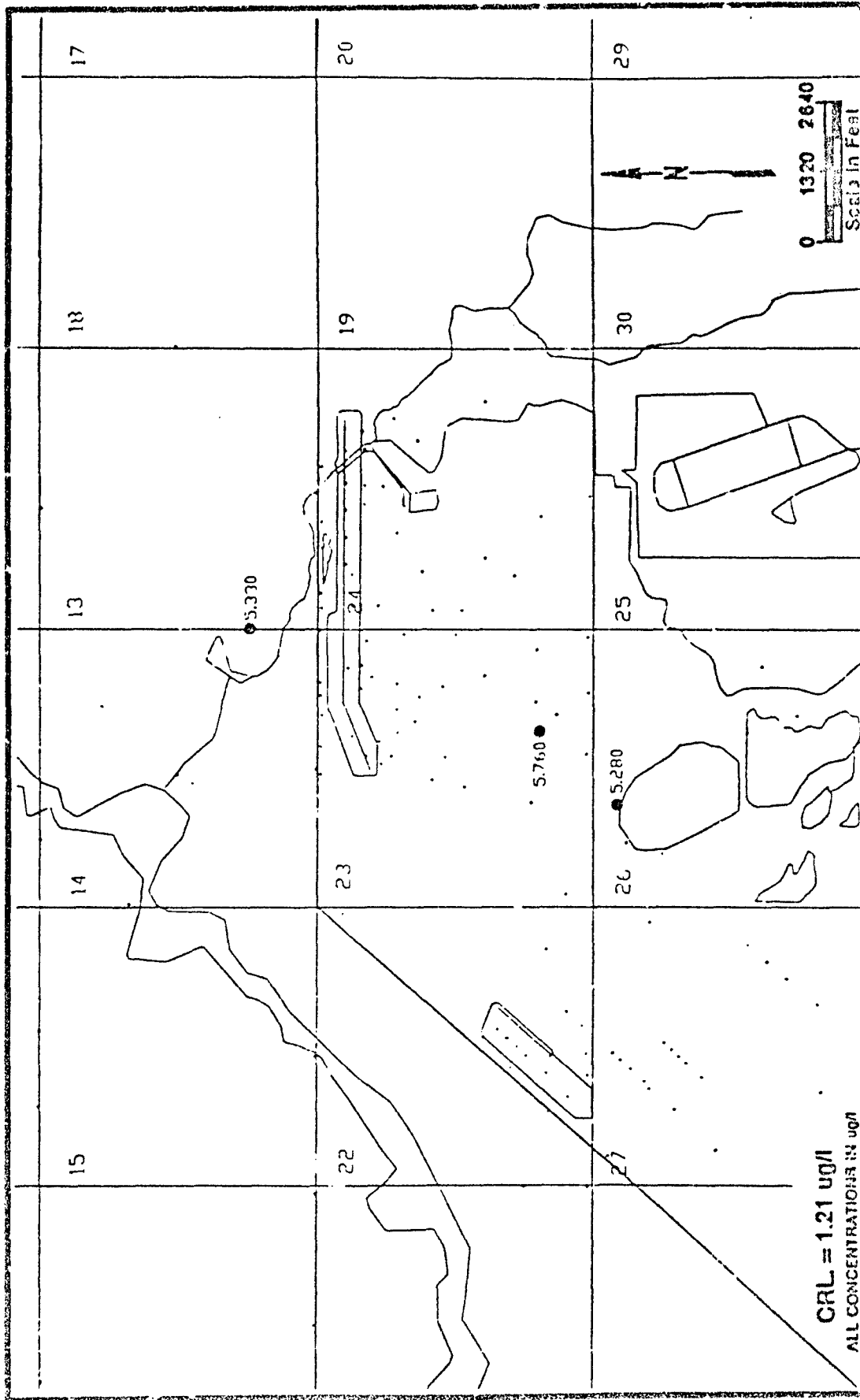
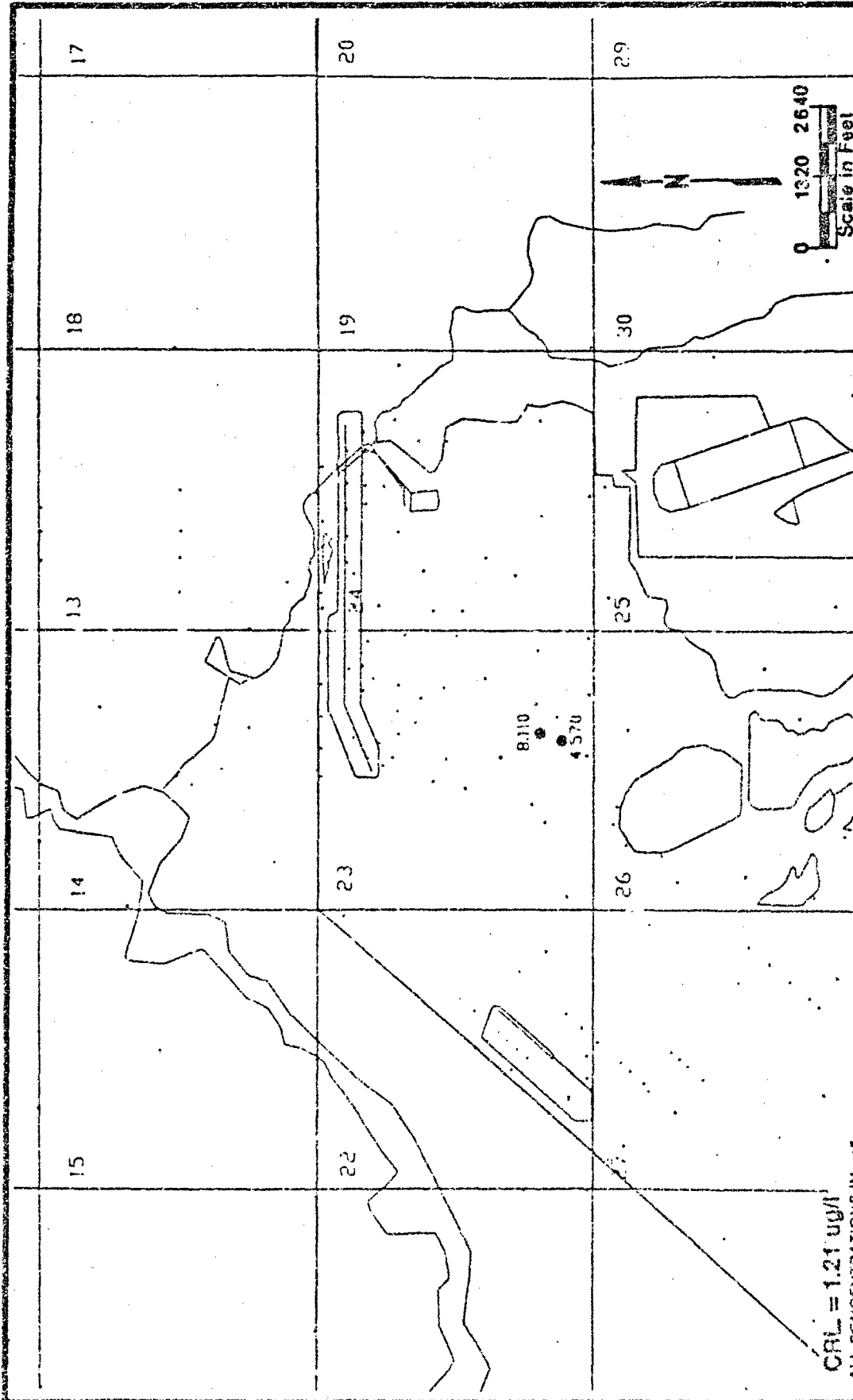


FIGURE B-968
 SECOND QUARTER, FY87
 TOLUENE DETECTIONS
 ALLUVIAL AQUIFER
 SOURCE: ESE, 1988

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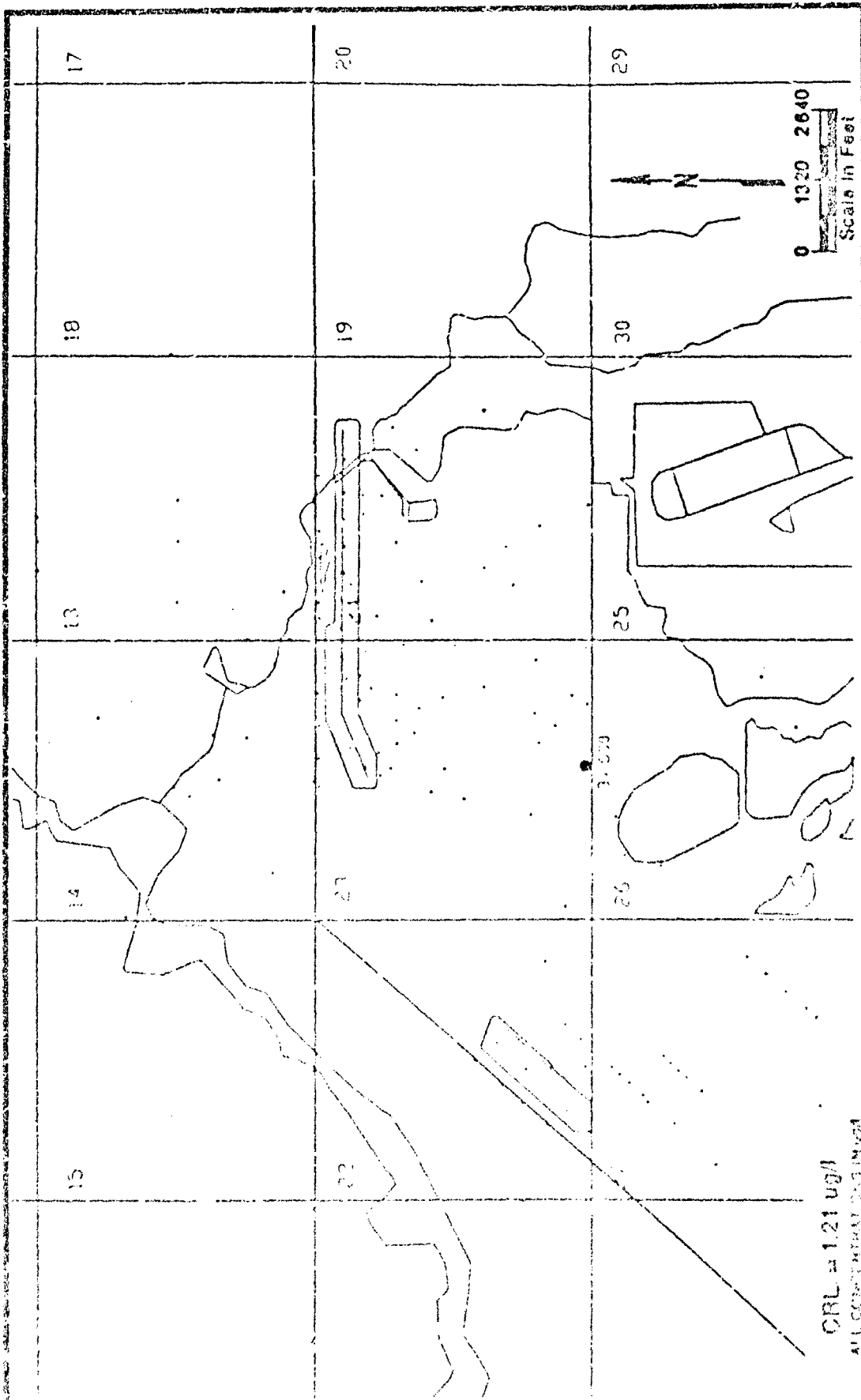


Figure 8-600
FOURTH QUARTER FY 87
TOLUENE DETECTIONS
ALLUVIAL AQUIFER
ROCKY MOUNTAIN ARSENAL

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Aberdeen Proving Ground, Maryland

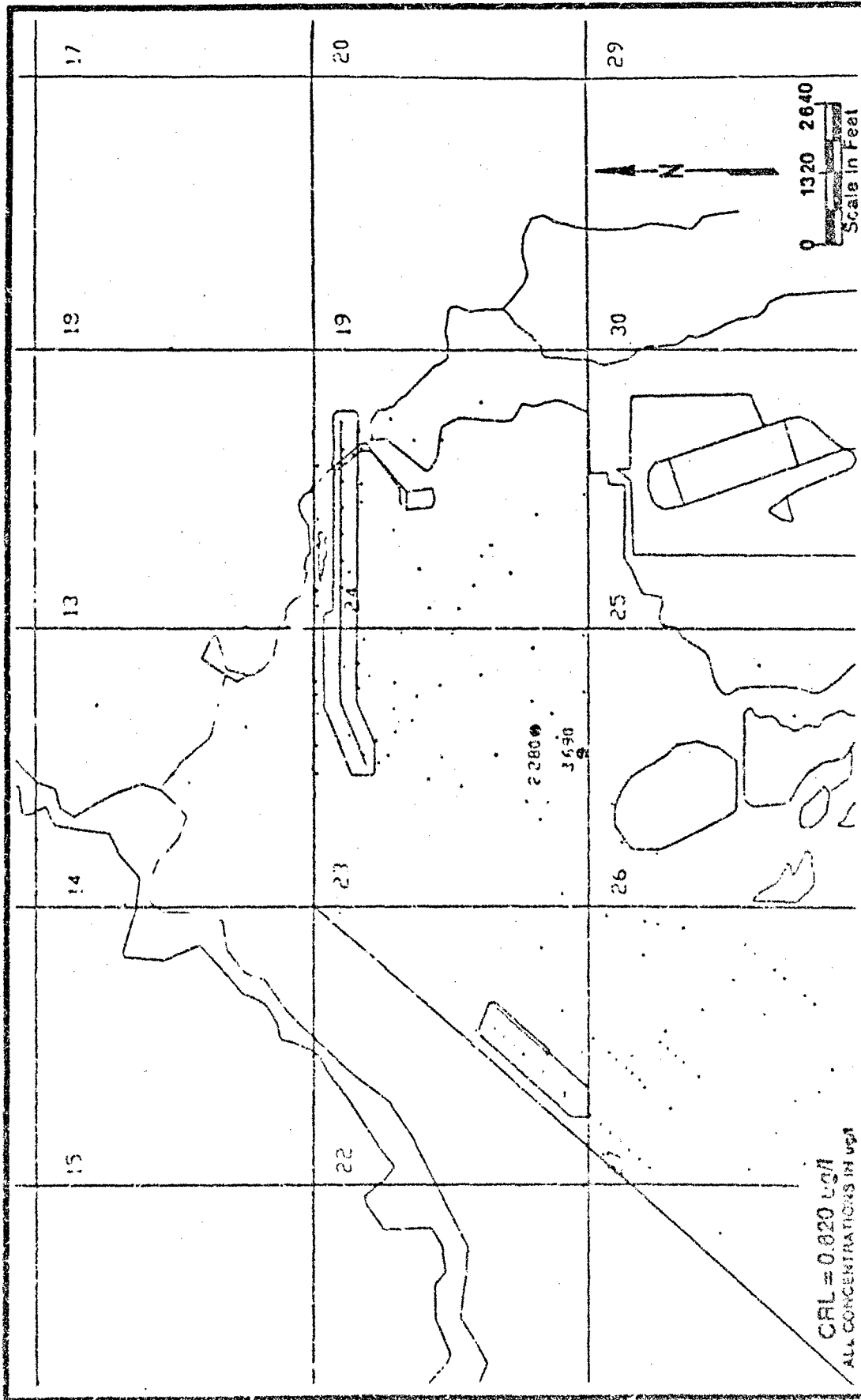


Figure B-97A
FIRST QUARTER, FY87
ETHYLBENZENE DETECTIONS
ALLUVIAL AQUIFER

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Aberdeen Proving Ground, Maryland

SOURCE: EOE 1022

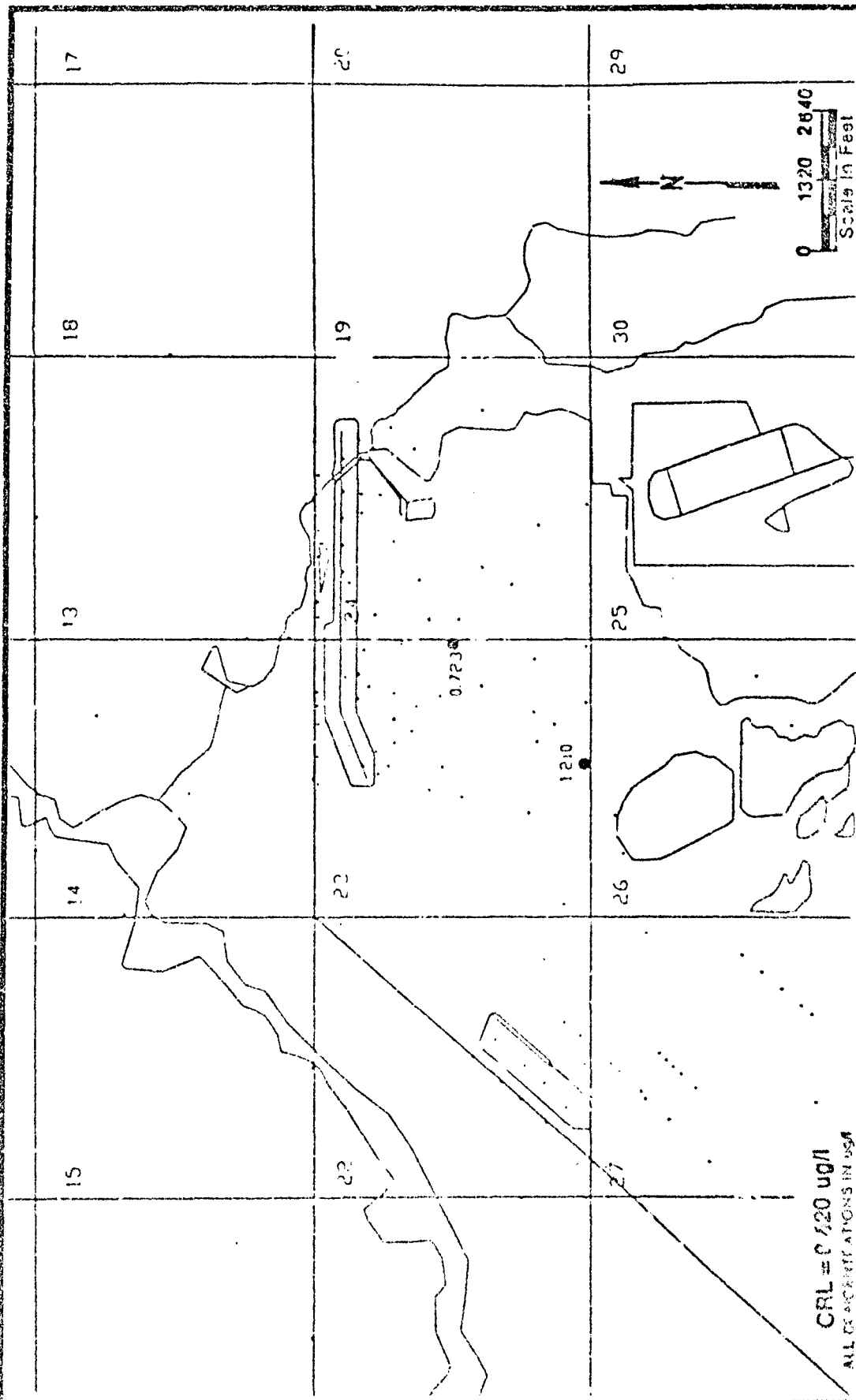


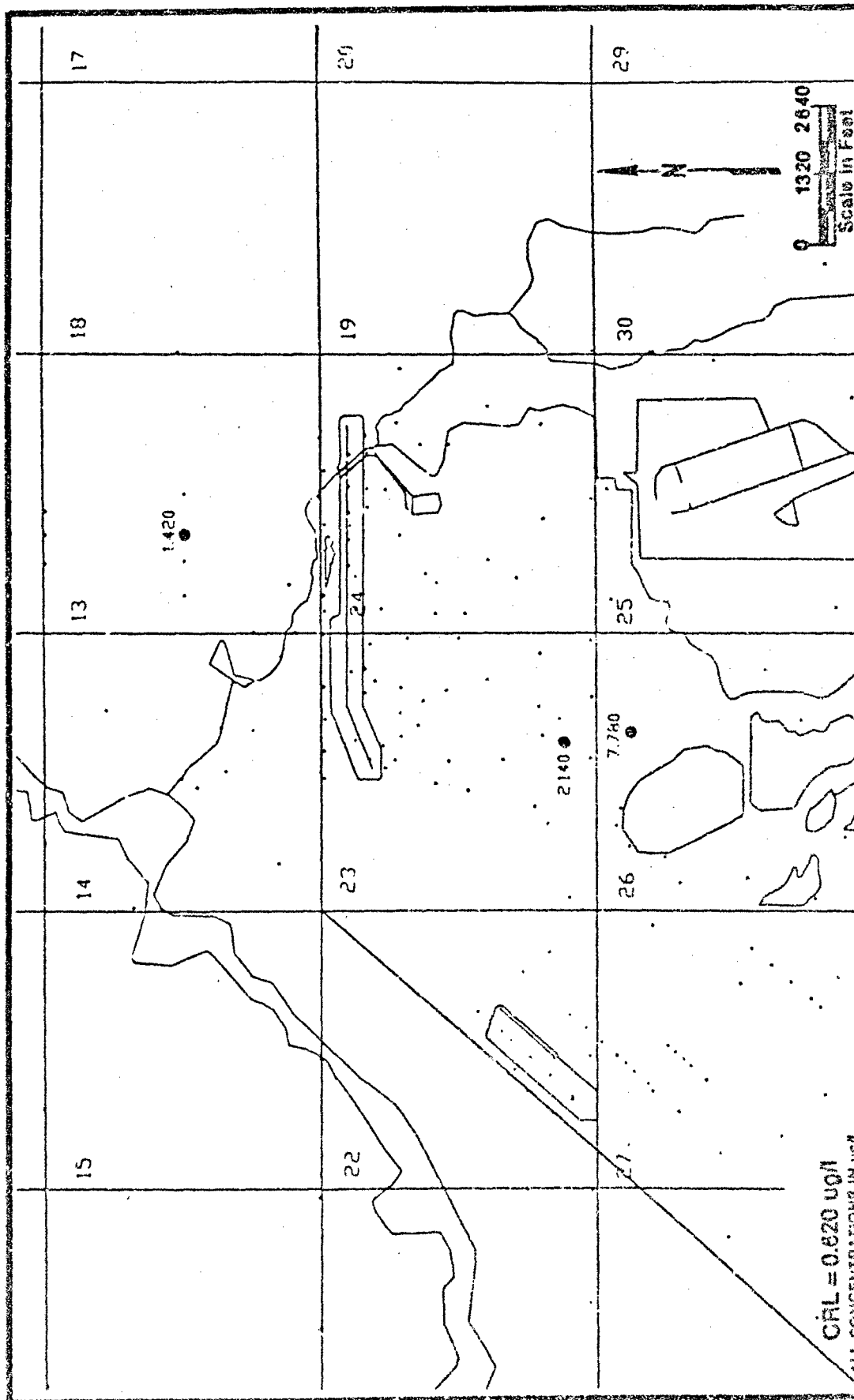
FIGURE B-972

SECOND QUARTER, FY87
ETHYLBENZENE DETECTIONS
ALLUVIAL AQUIFER

SOURCE: EEL, 11-88

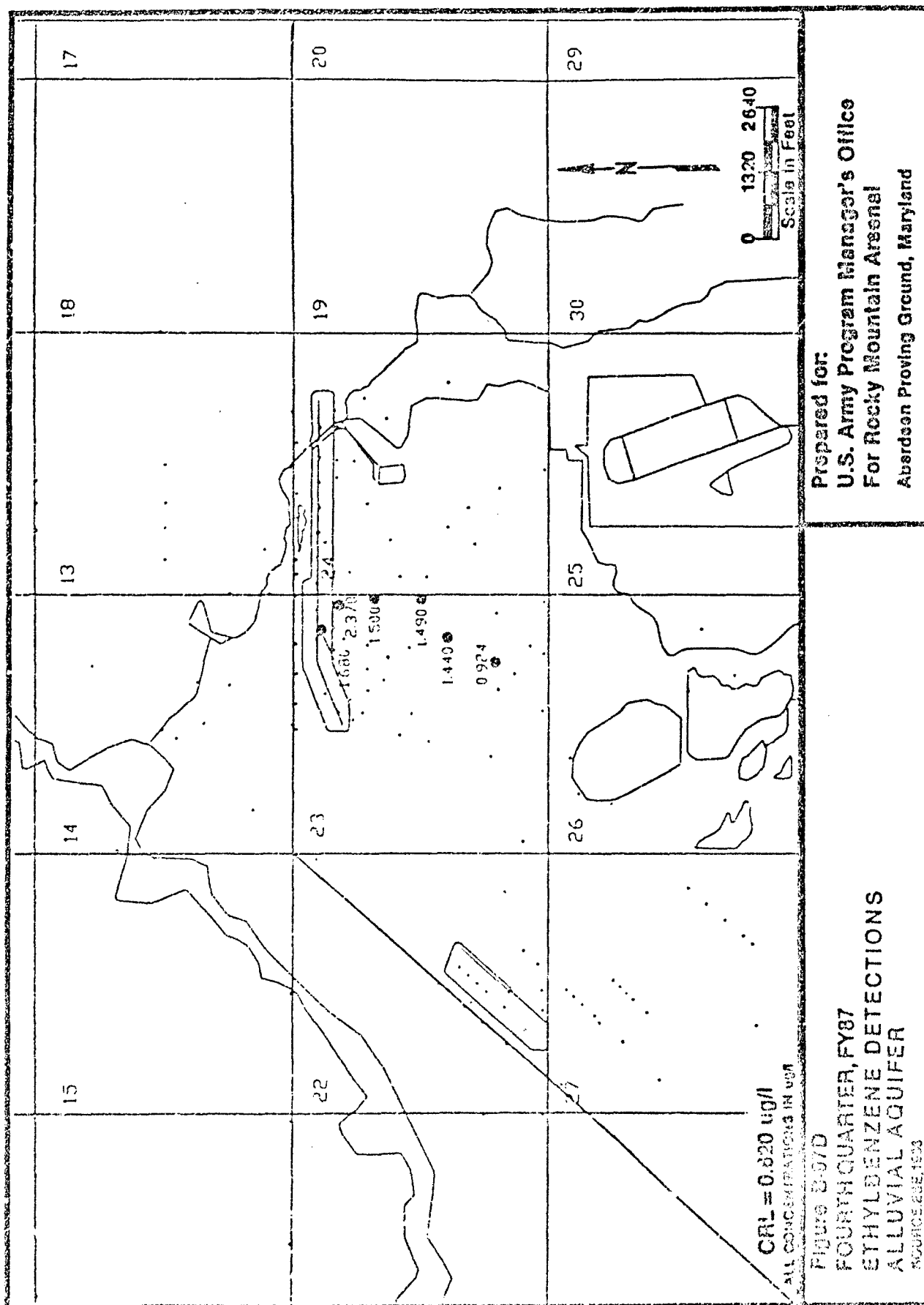
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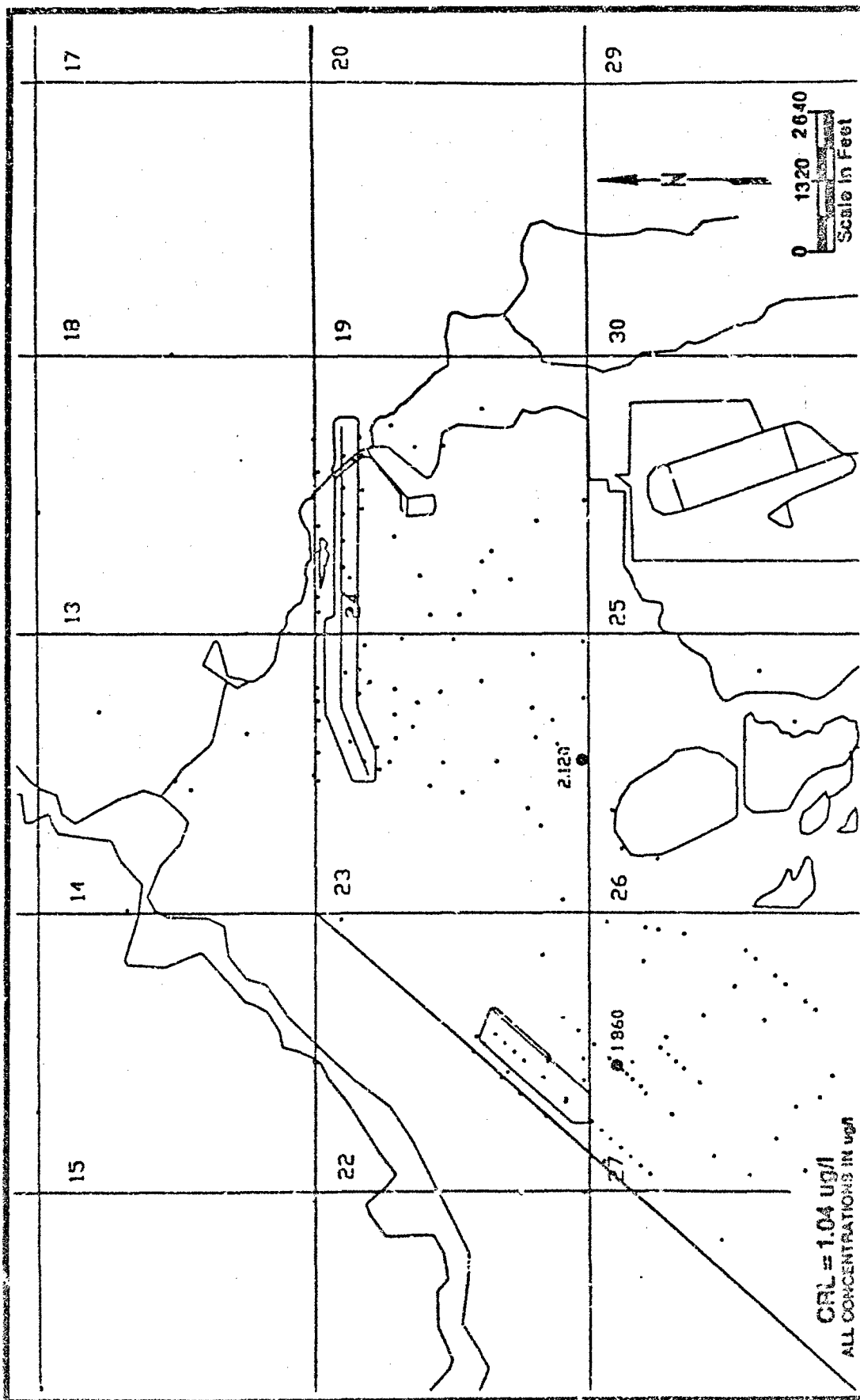
U.S. Army Program Manager's Office
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Figure B-97C
THIRD QUARTER, FY87
ETHYLBENZENE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1988





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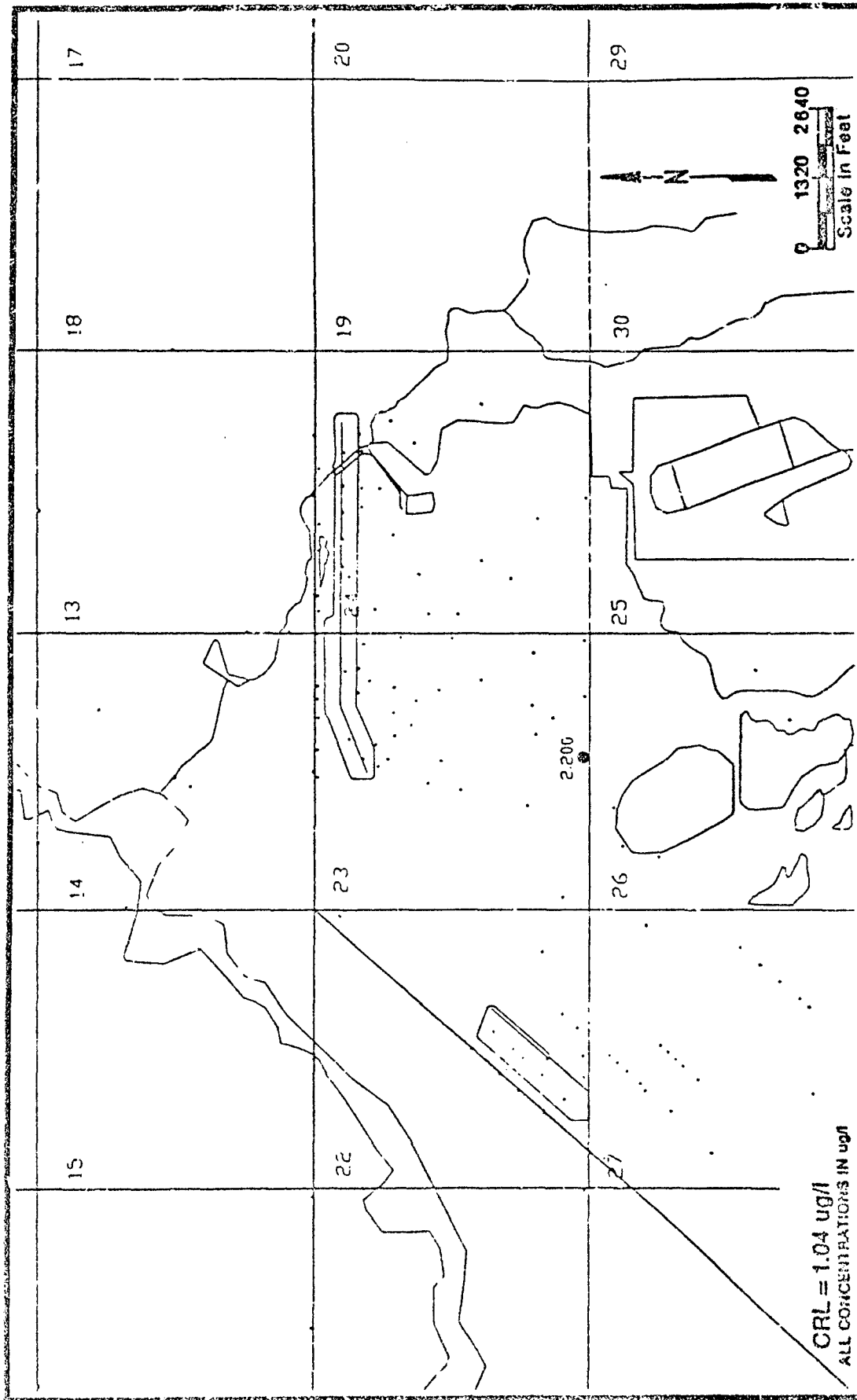
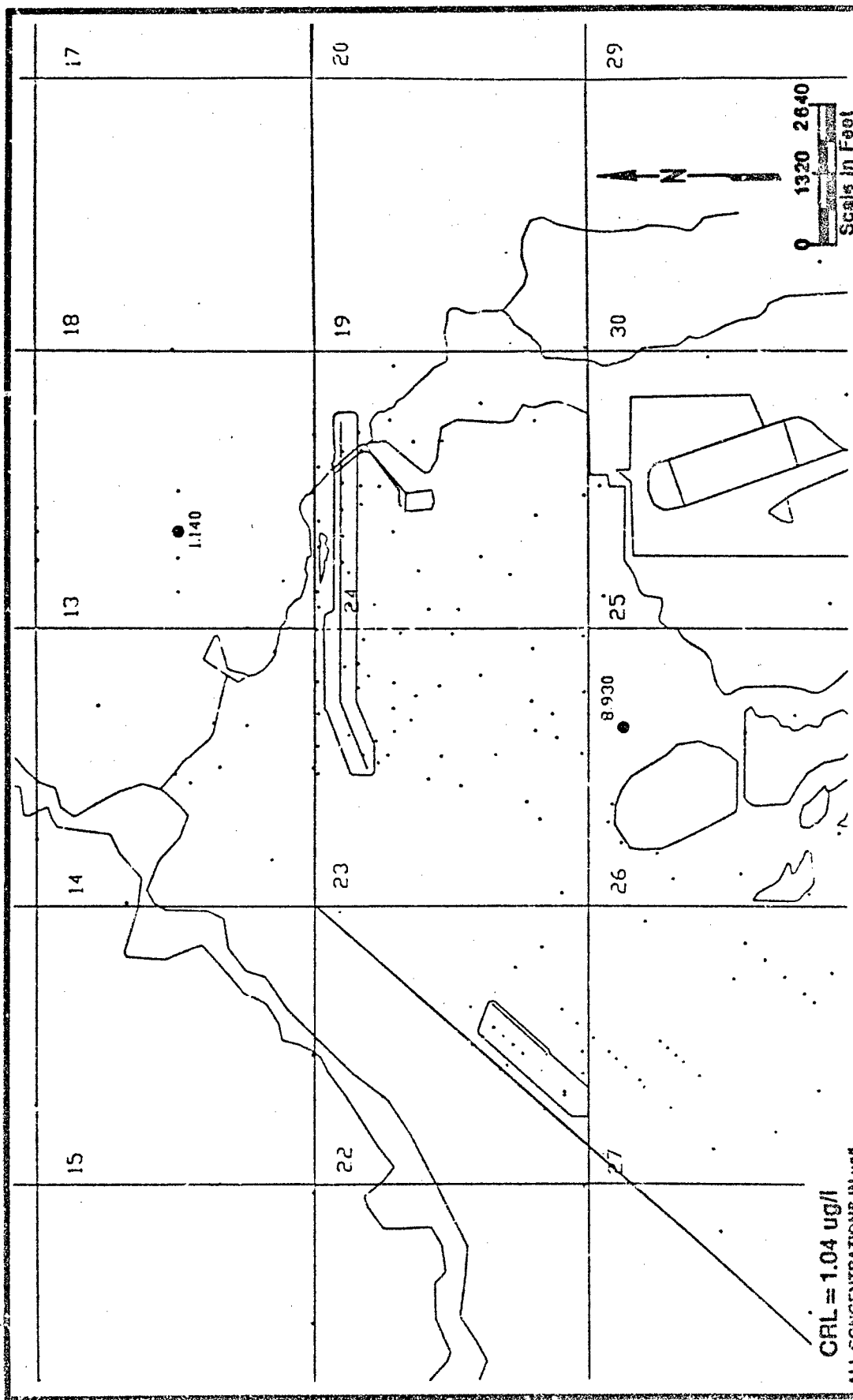


Figure B-68B
SECOND QUARTER, FY87
M-XYLENE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE-1023



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Figure B-58C
 THIRD QUARTER, FY67
 M-XYLENE DETECTIONS
 ALLUVIAL AQUIFER
 SOURCE: ESE 1000

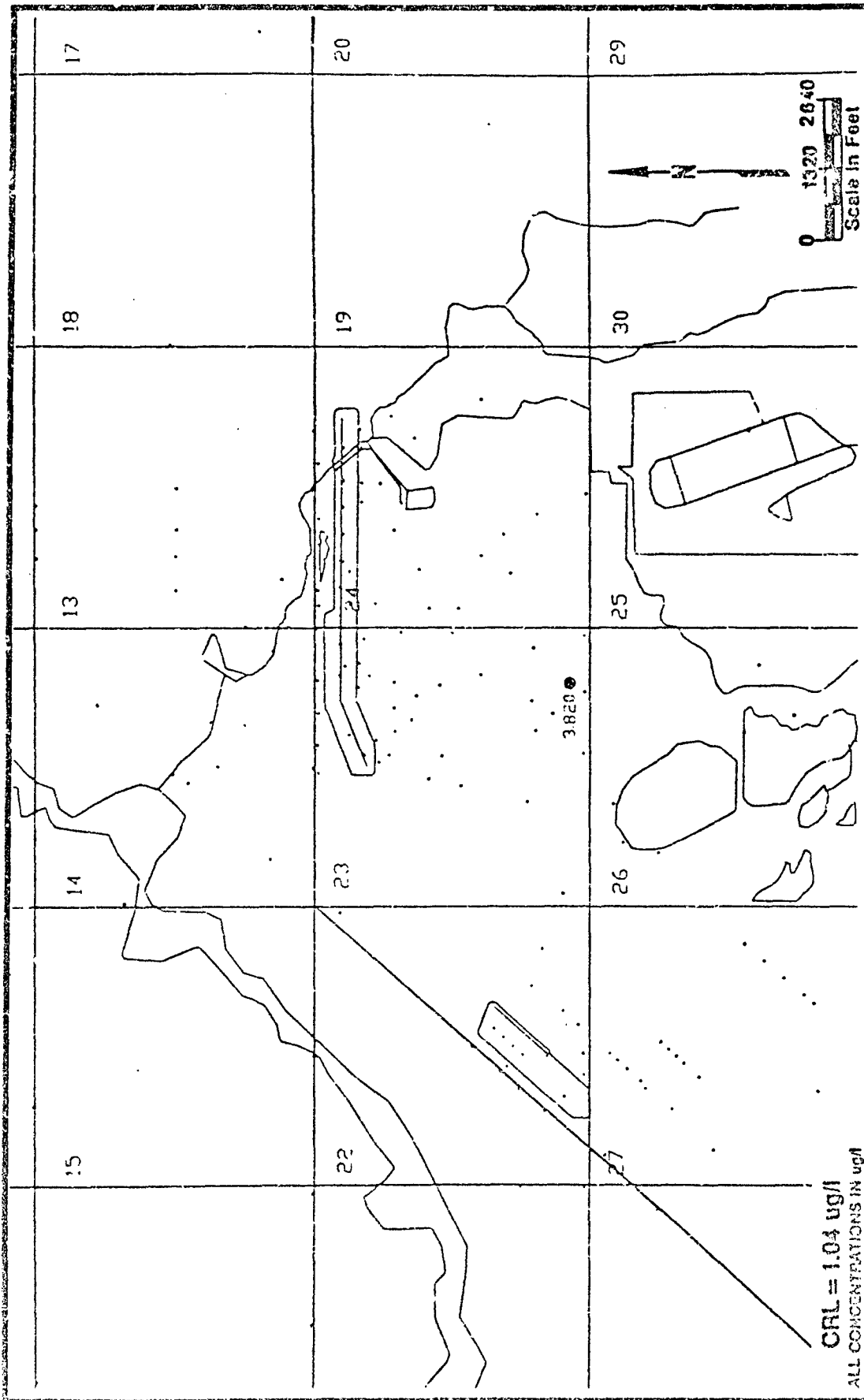
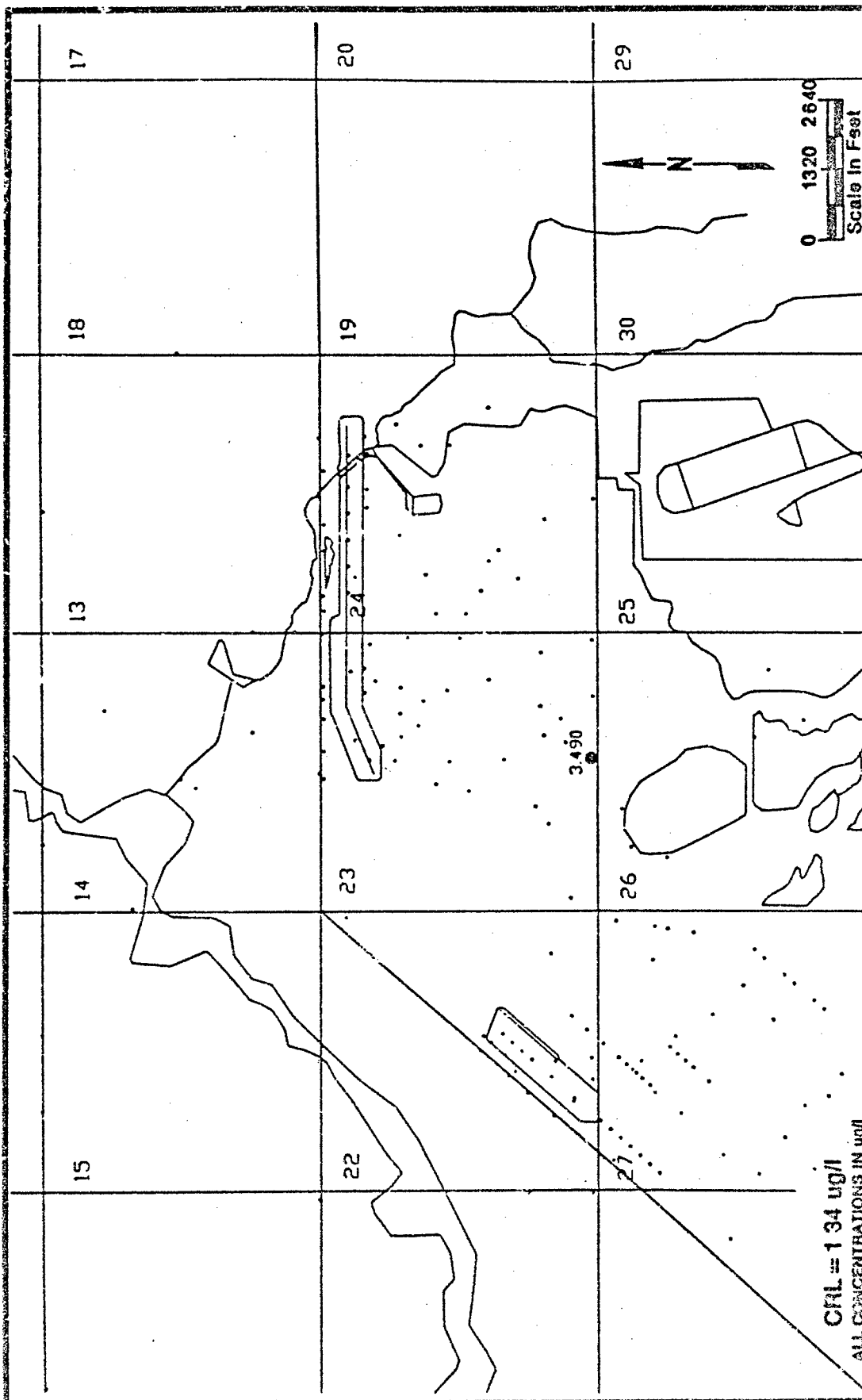


FIGURE B-32D
FOURTH QUARTER, FY87
M-XYLENE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1993

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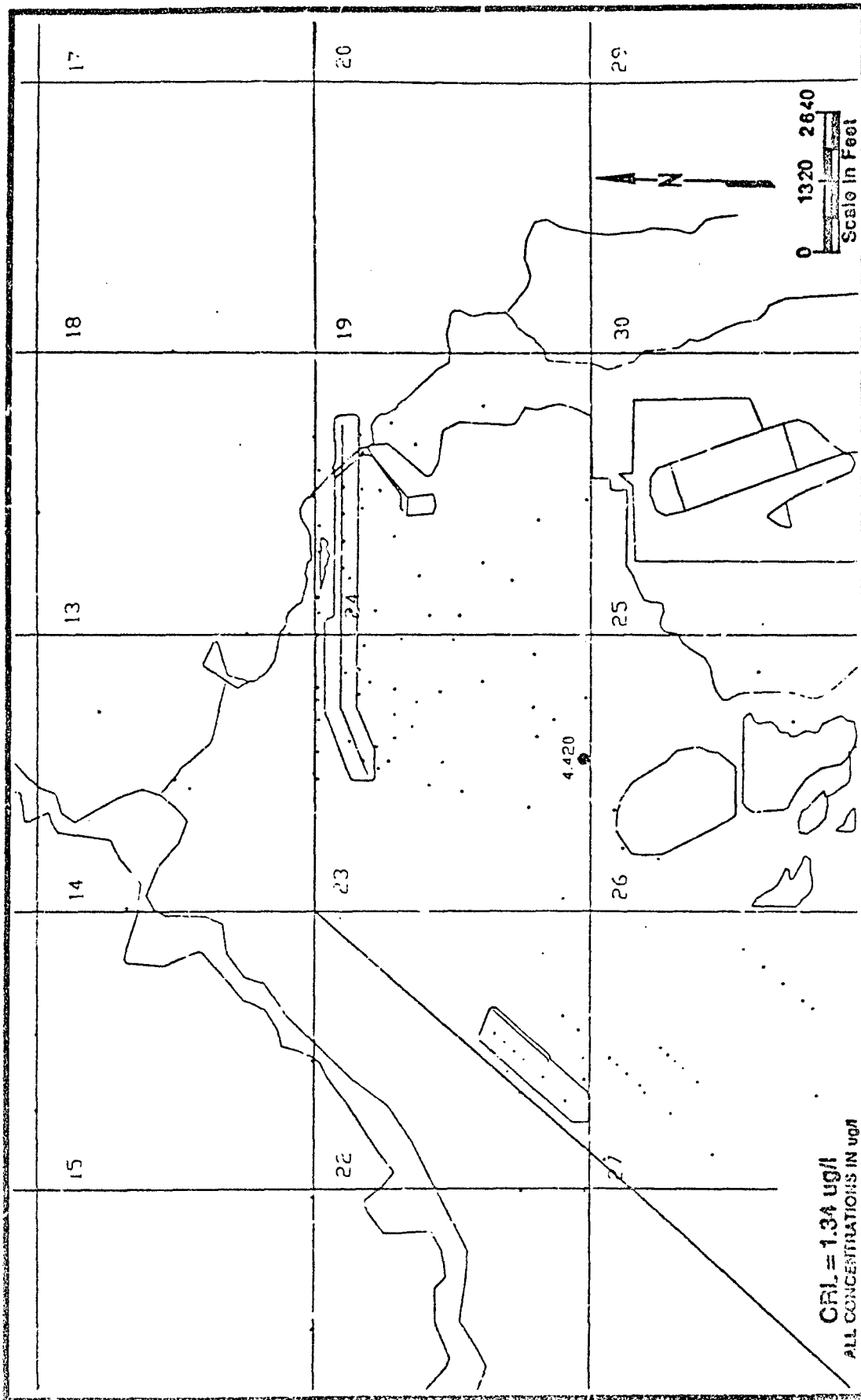
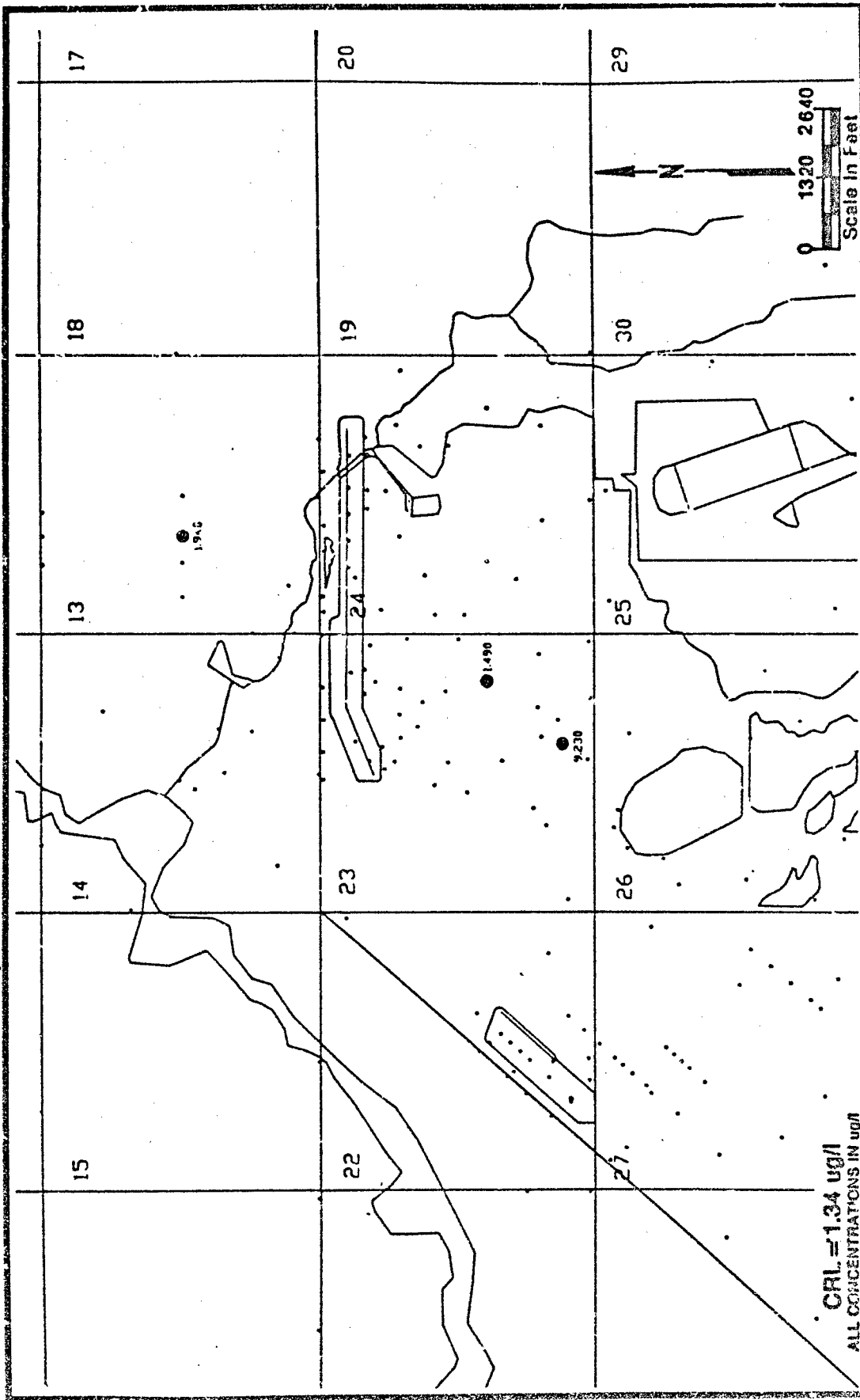
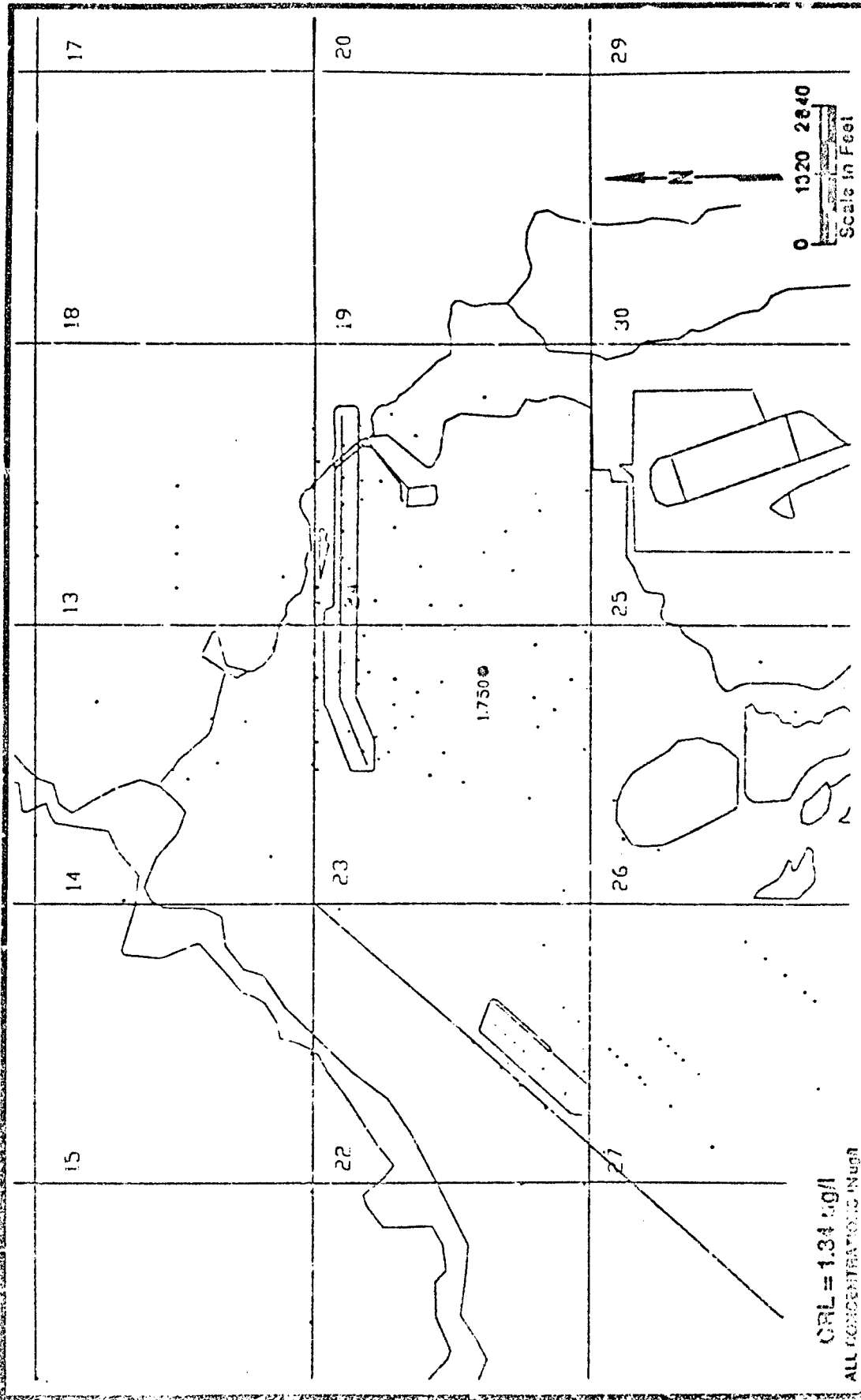


Figure B-00B
SECOND QUARTER, FY87
O and/or P-XYLENE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: ESE, 1998



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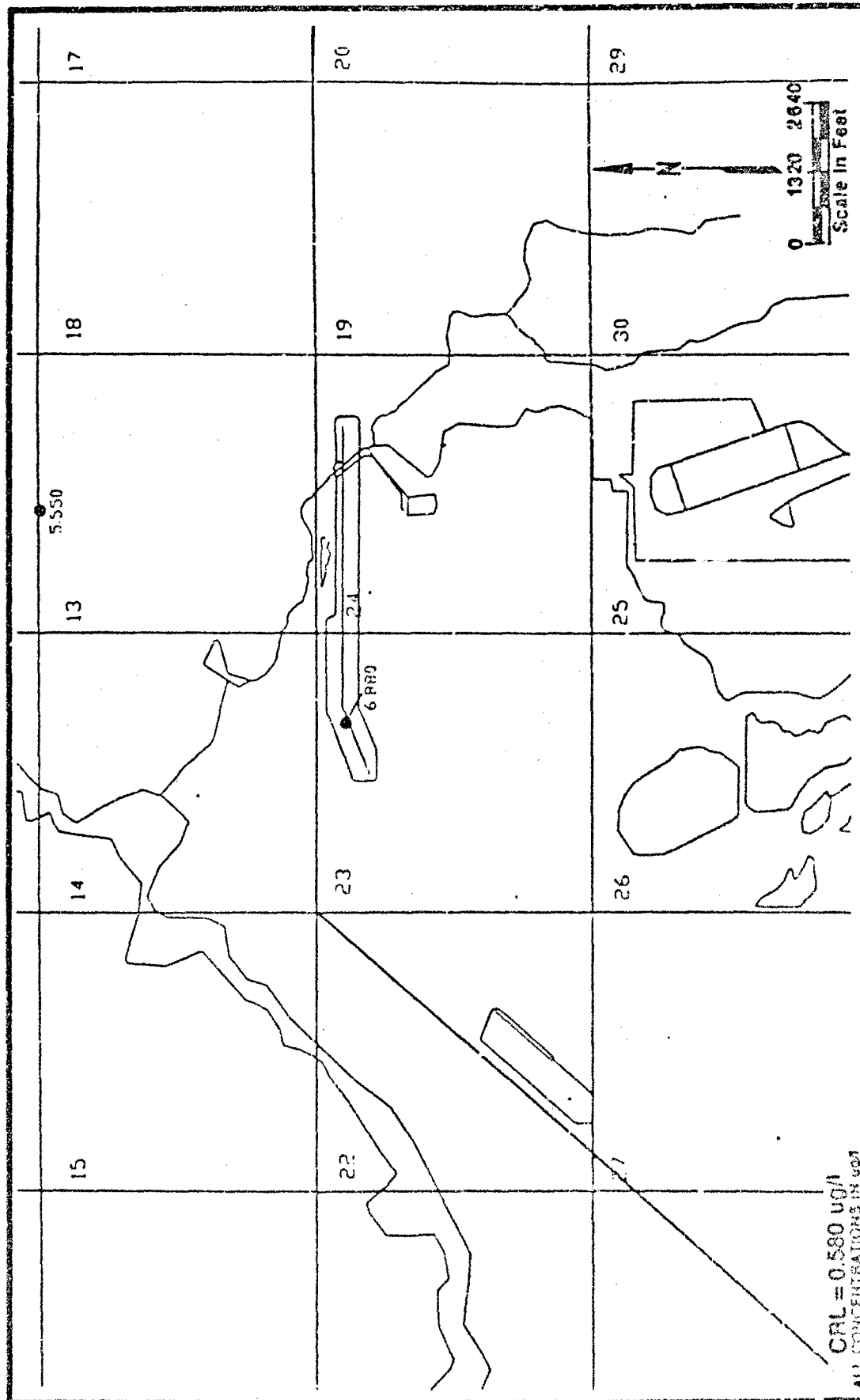


ORL = 1.34 ug/l

ALL CONCENTRATIONS IN ug/l

FIGURE B-30D
FOURTH QUARTER, FY87
O and/or P-XYLENE DETECTIONS
ALLUVIAL AQUIFER
SOURCE: DSR, 1030

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Figure 8-100A
 FIRST QUARTER, FY87
 CHLOROBENZENE DETECTIONS, SAND 4
 DENVER AQUIFER
 SOURCE: ESE 1988

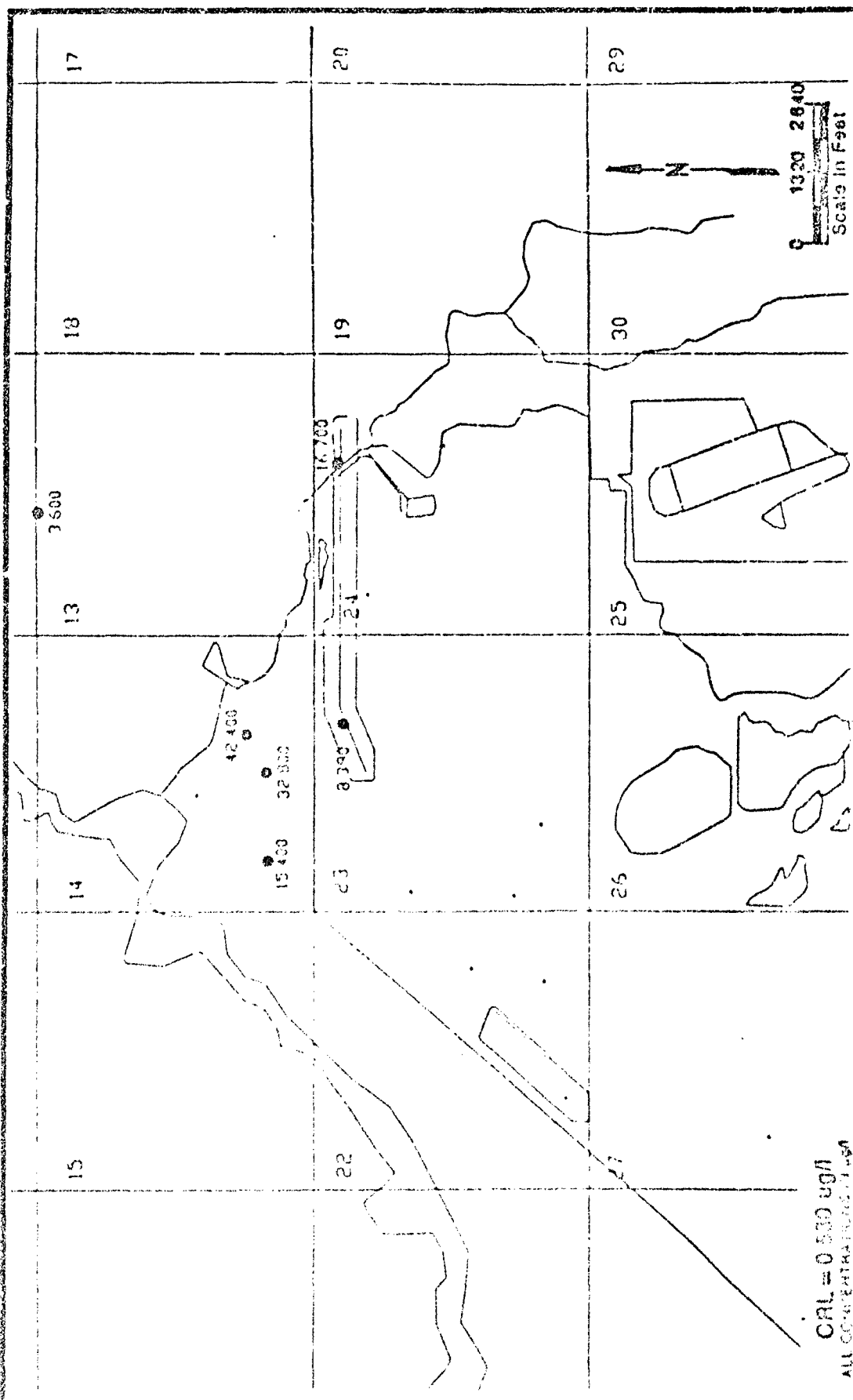


Figure B-100B
THIRD QUARTER FY87
CHLOROBENZENE DETECTIONS, SAND 4
DENVER AQUIFER
SCALE: 1:50,000

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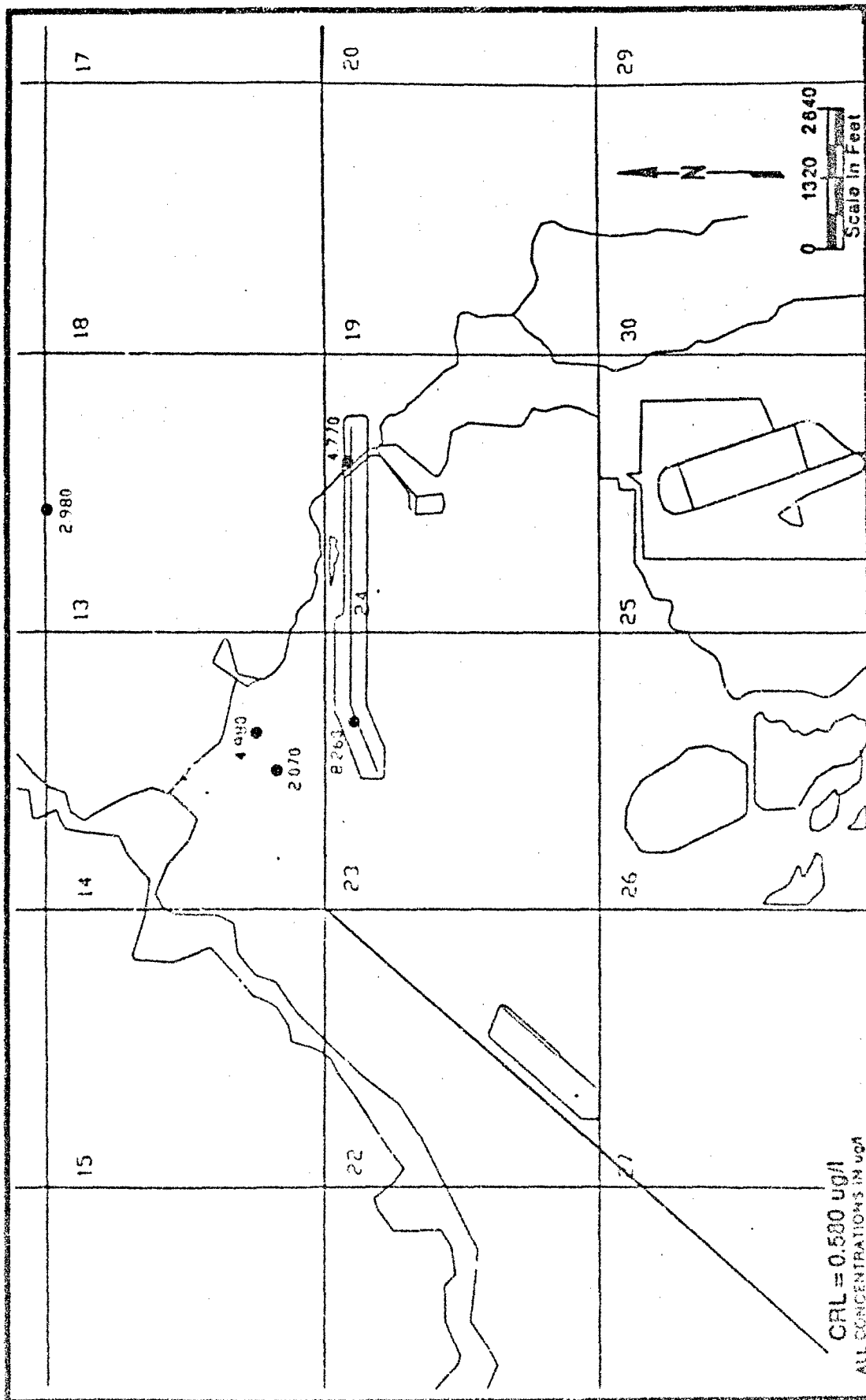


Figure B-100C
FOURTH QUARTER, FY87
CHLOROBENZENE DETECTIONS, SAND 4
DENVER AQUIFER
SOURCE: ESE 1003

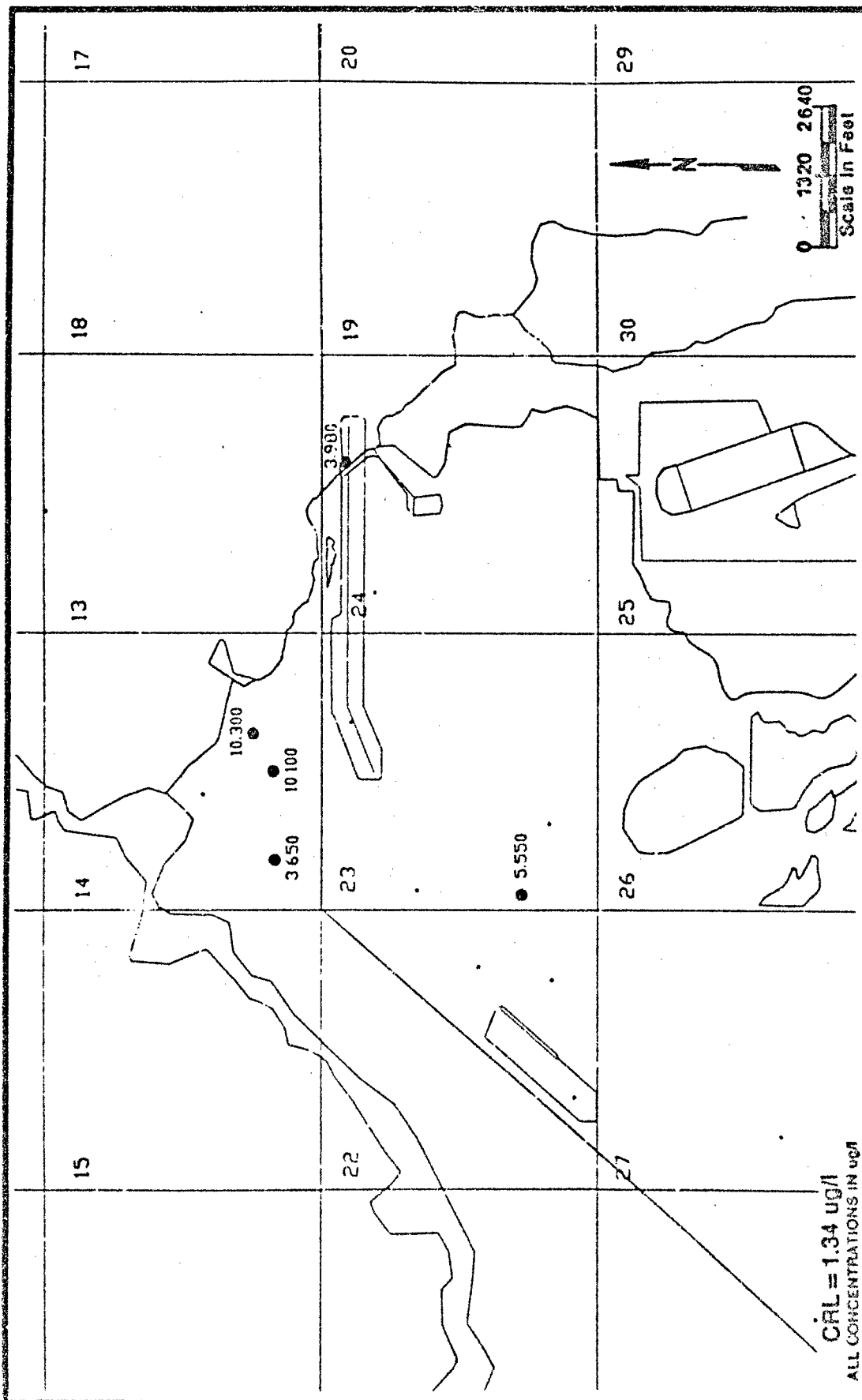
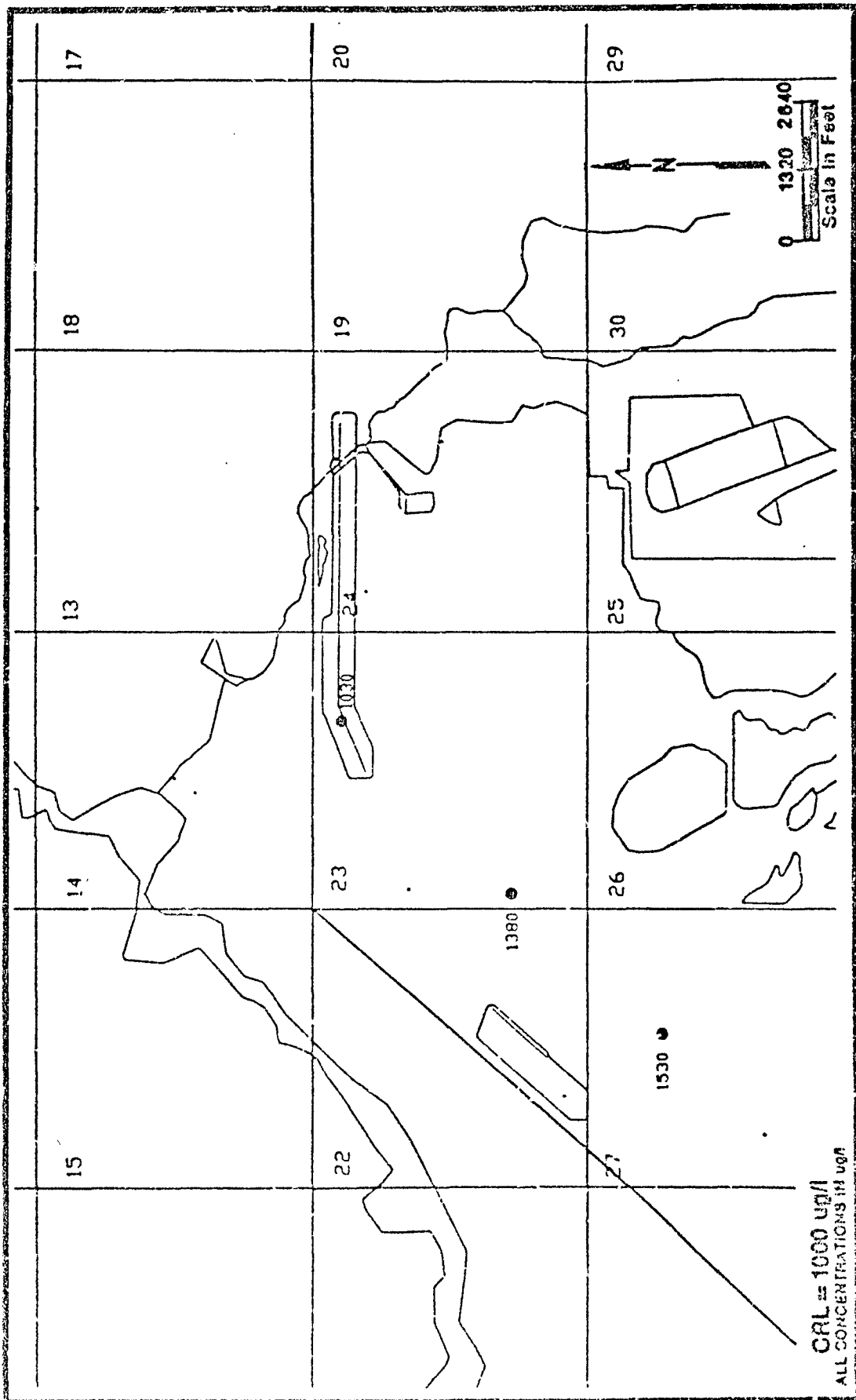


Figure B-101B

THIRD QUARTER, FY87
BENZENE DETECTIONS, SAND 4
DENVER AQUIFER
SOURCE: ESE 1003

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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

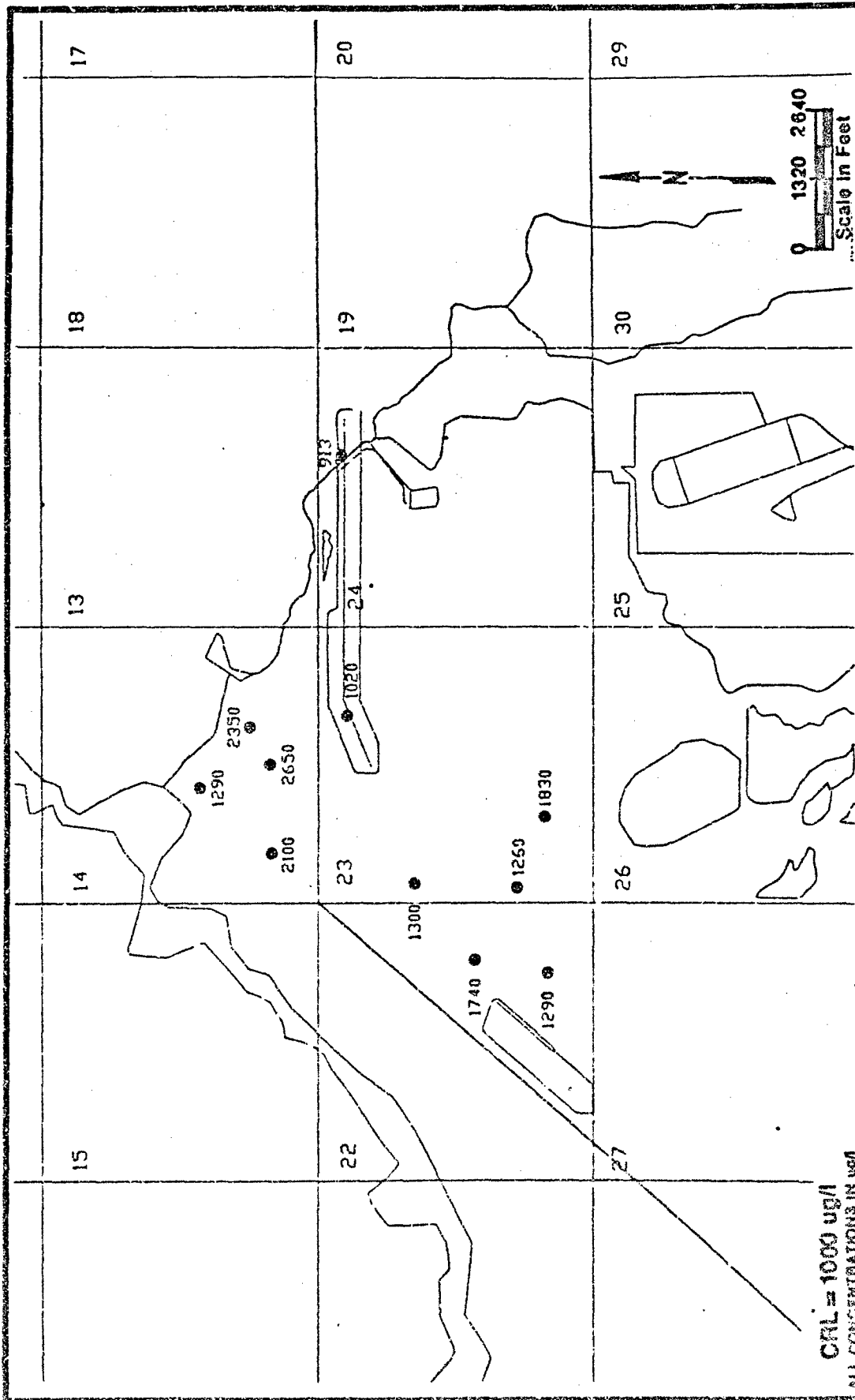


FIGURE B-102B
THIRD QUARTER, FY87
FLUORIDE DETECTIONS, SAND 4
DENVER AQUIFER
SOURCE: ESE 1983

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Aberdeen Proving Ground, Maryland

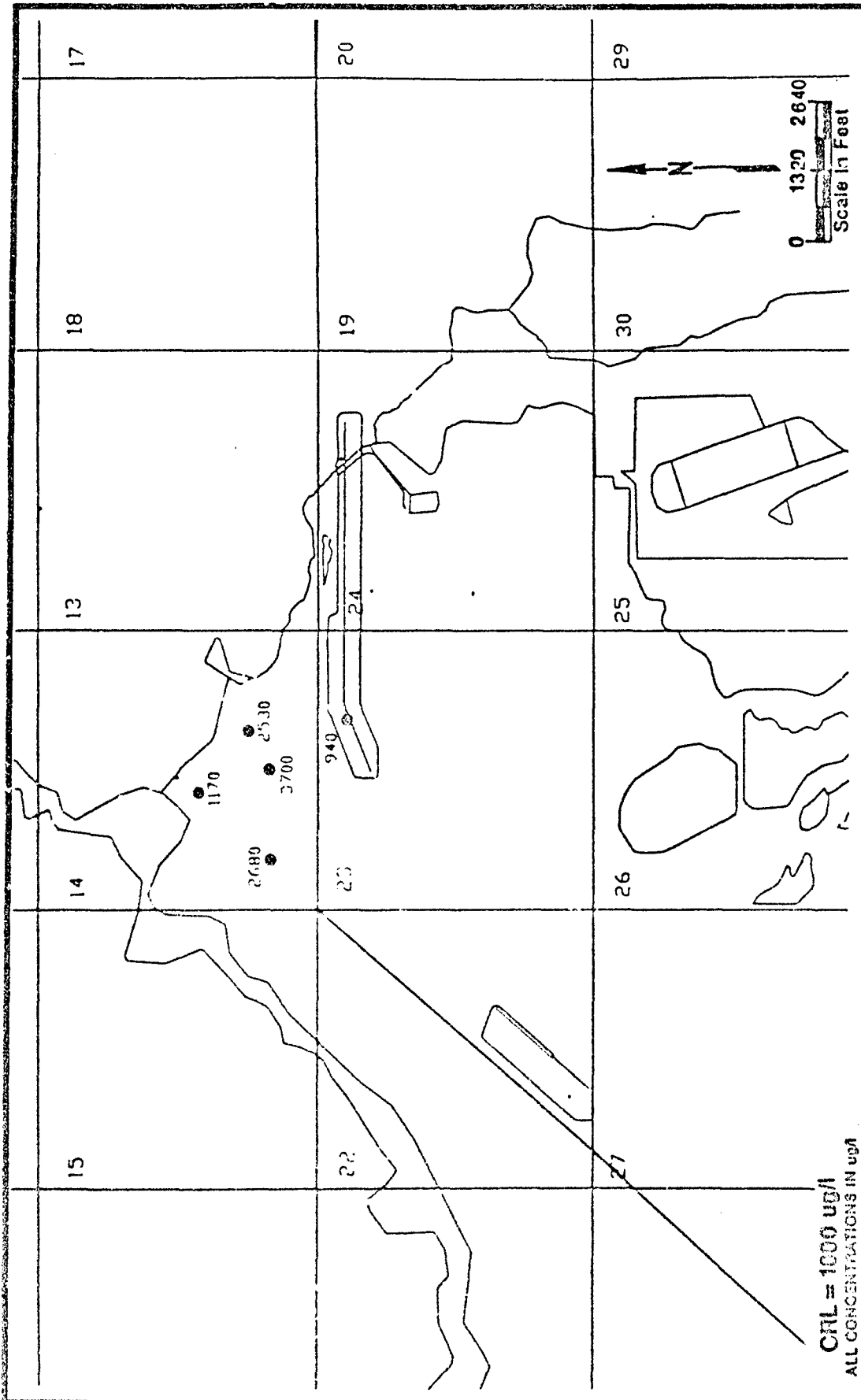
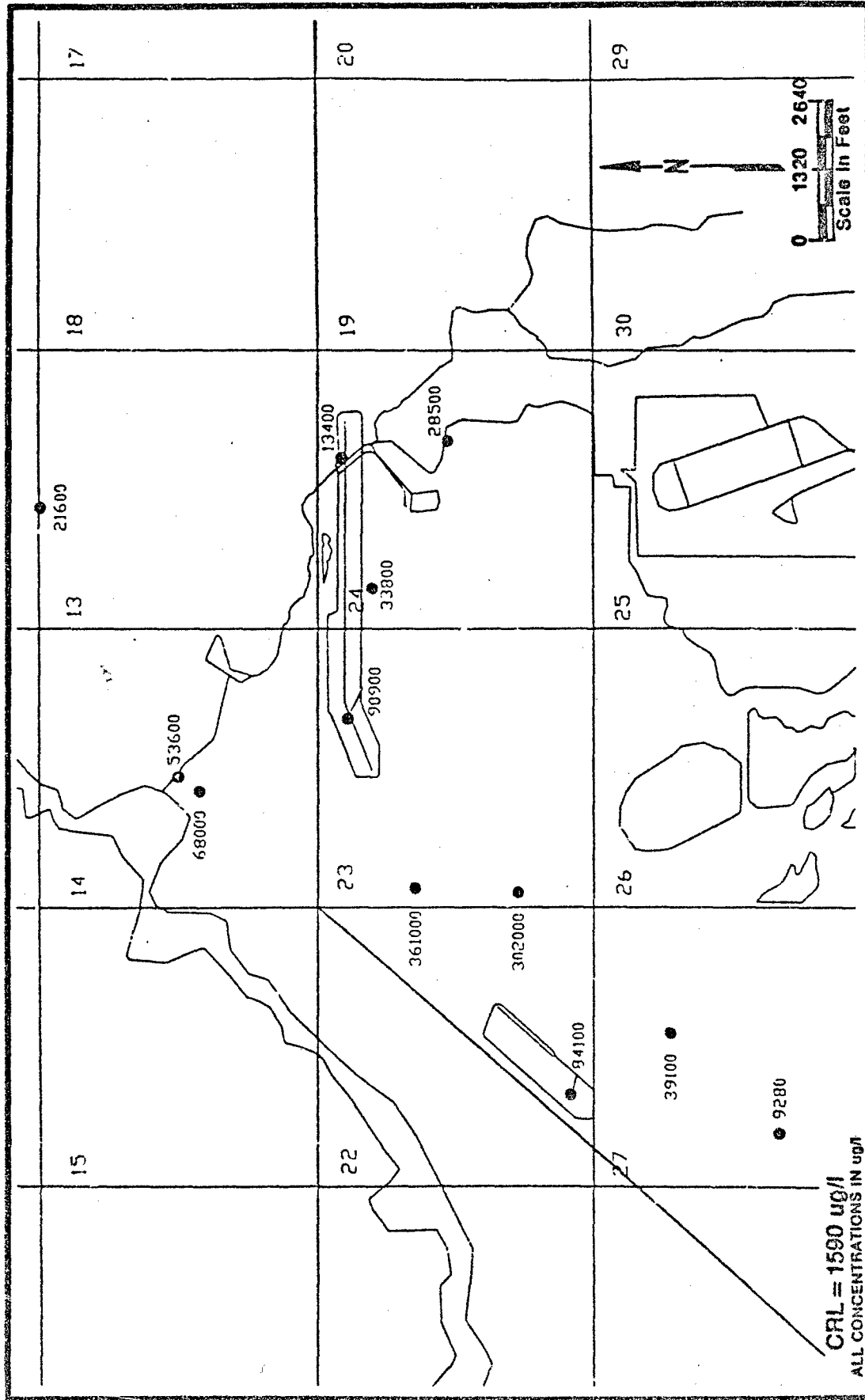


FIGURE D-102C
 FOURTH QUARTER, FY87
 FLUORIDE DETECTIONS, SAND 4
 DENVER AQUIFER
 SOURCE: EDE (C-1)

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Aberdeen Proving Ground, Maryland

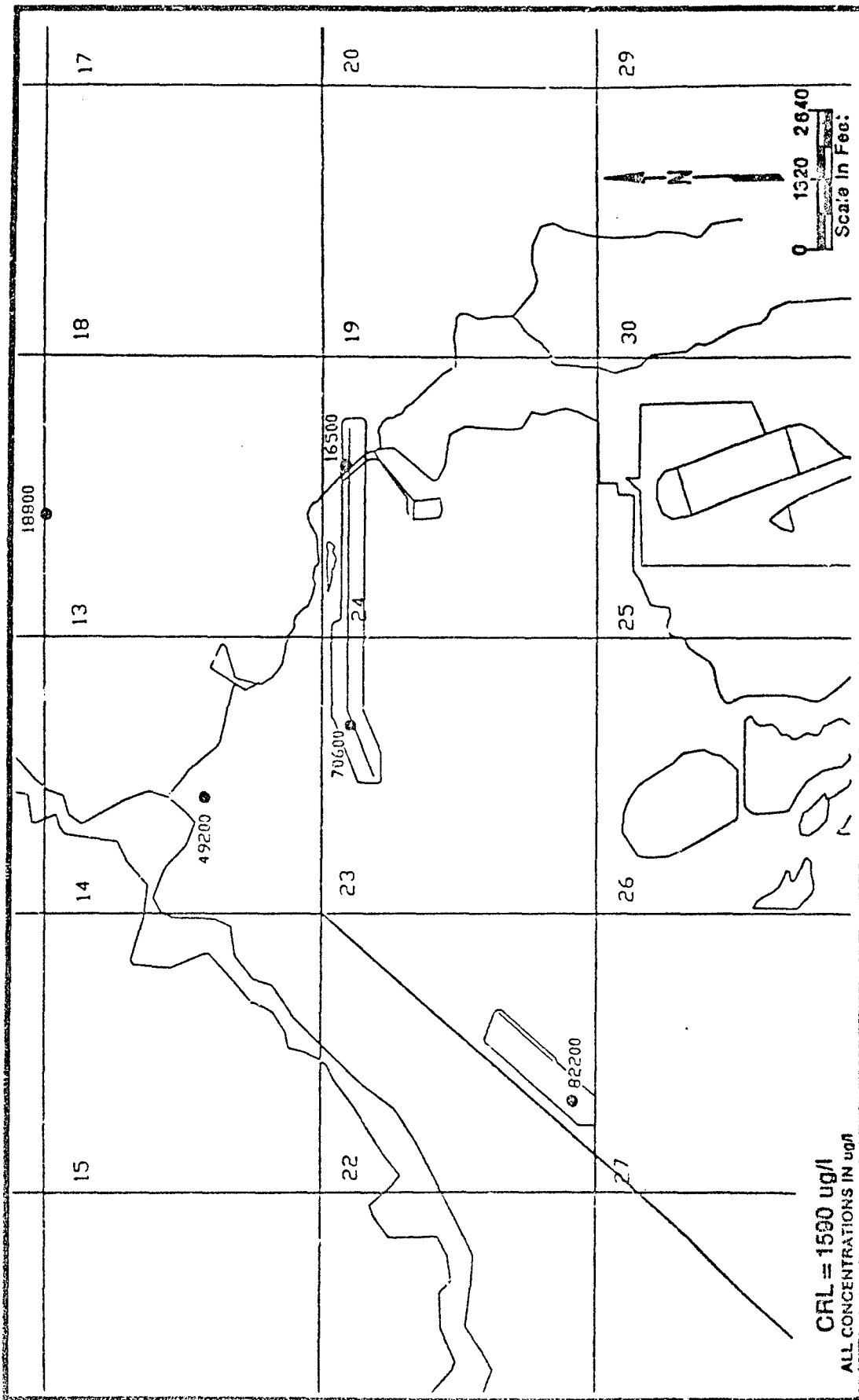
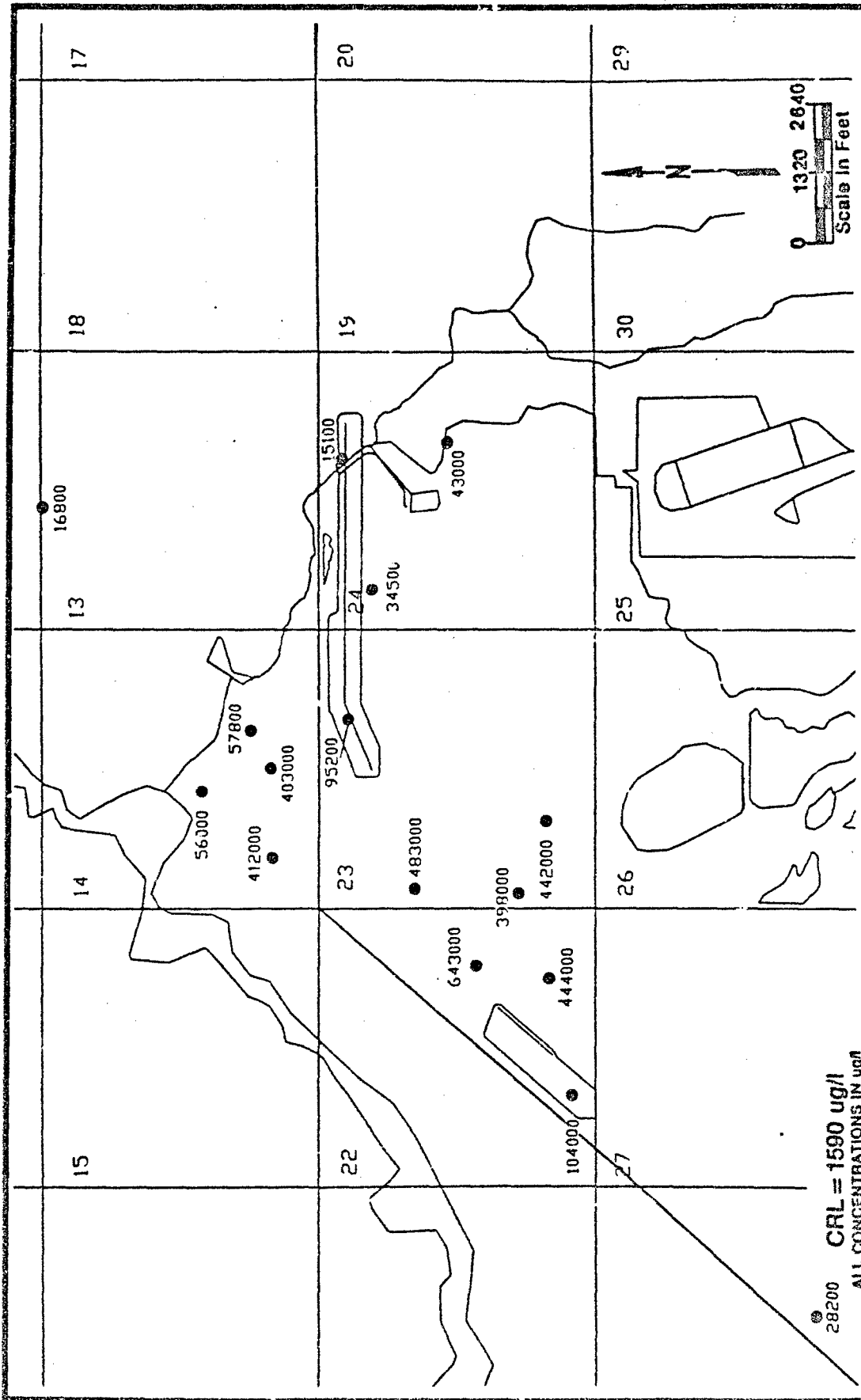


Figure B-103B
SECOND QUARTER, FY87
CHLORIDE DETECTIONS, SAND 4
DENVER AQUIFER
SOURCE ESE: 1033

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Aberdeen Proving Ground, Maryland



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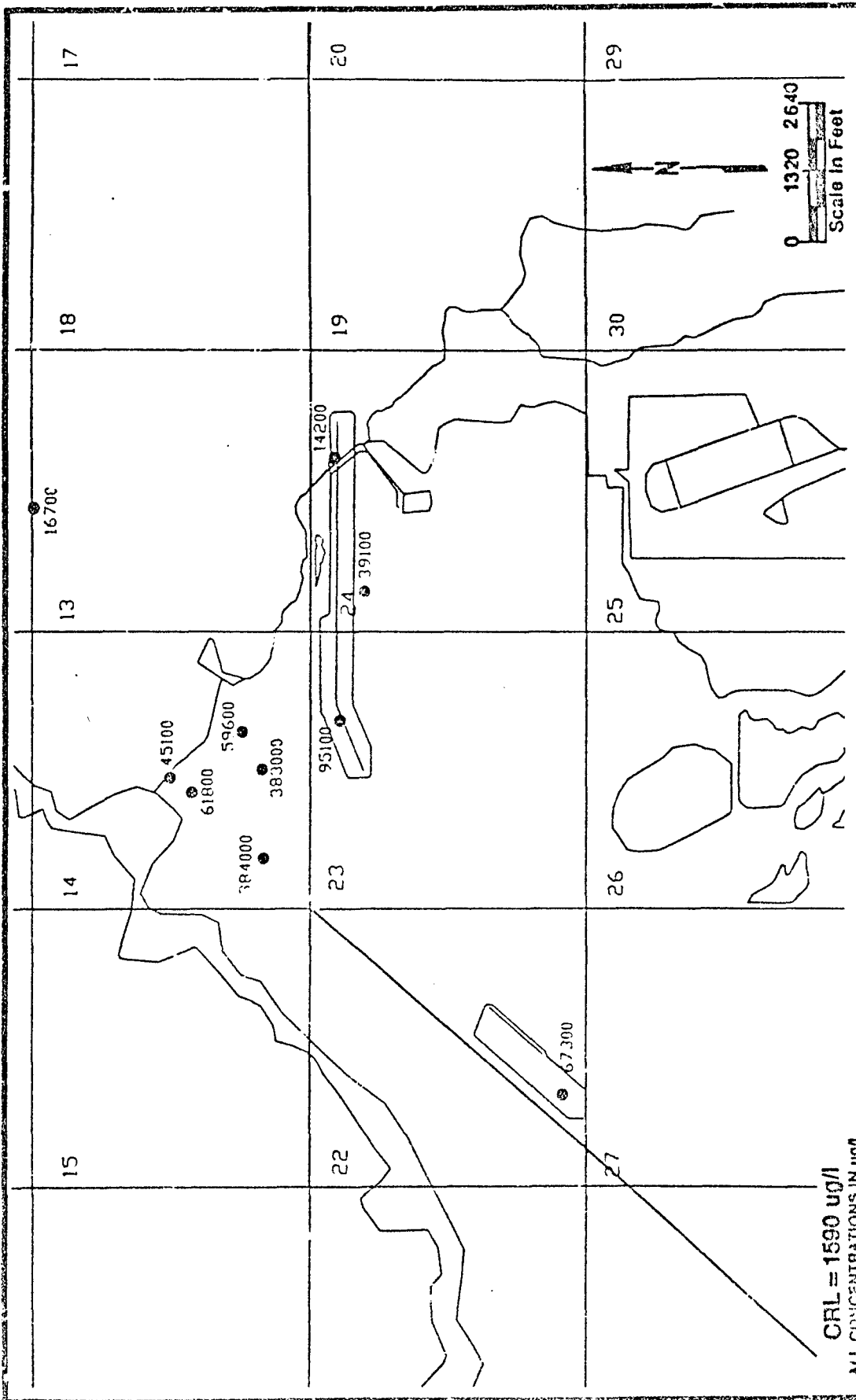


Figure 2-103D
FOURTH QUARTER, FY87
CHLORIDE DETECTIONS, SAND 4
DENVER AQUIFER
SOURCE: ESE 1083

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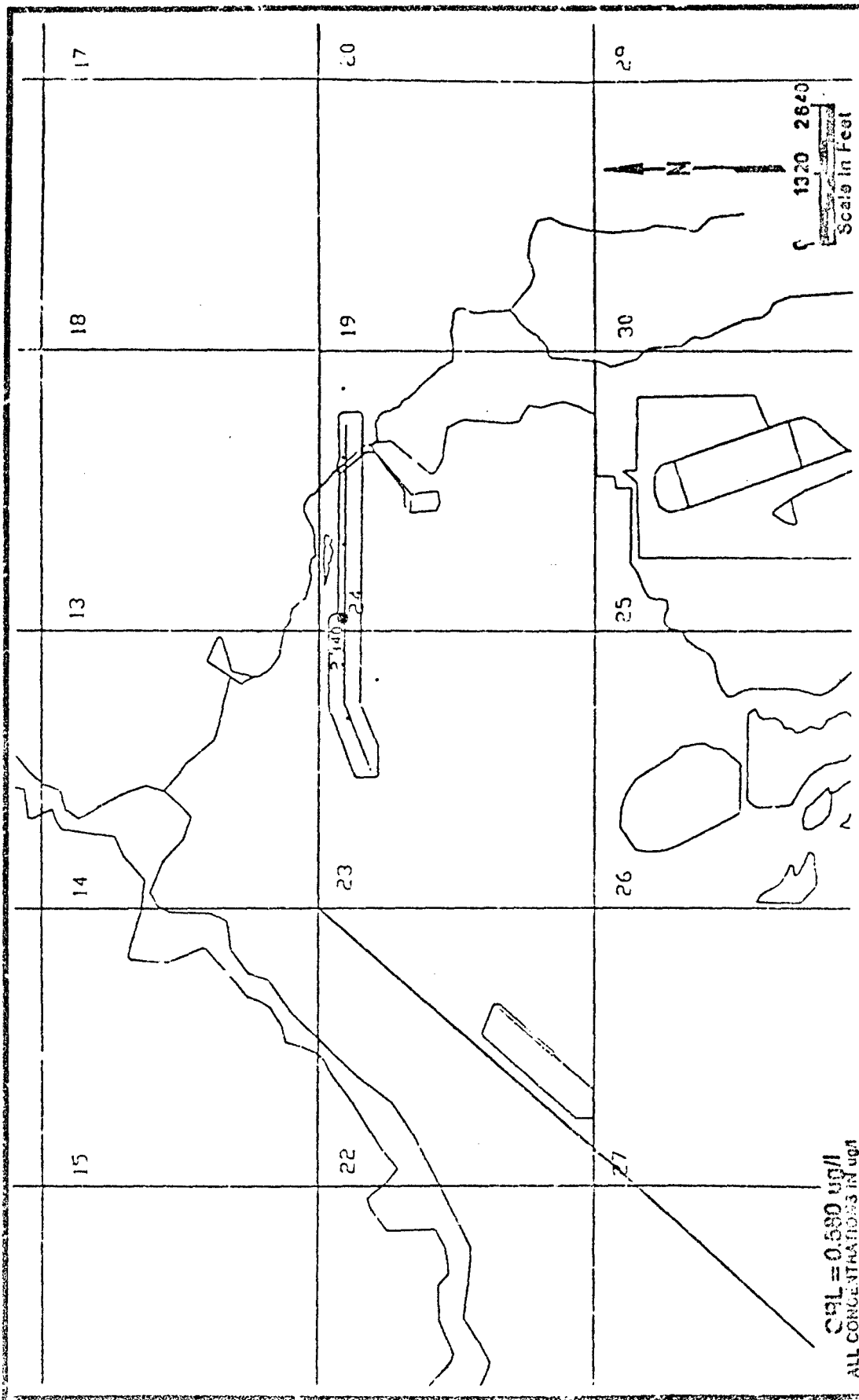


Figure E-10-13
SECOND QUARTER, FY87
CHLOROBENZENE DETECTIONS, SAND 3
DENVER AQUIFER
SOURCE: ESE 10-8

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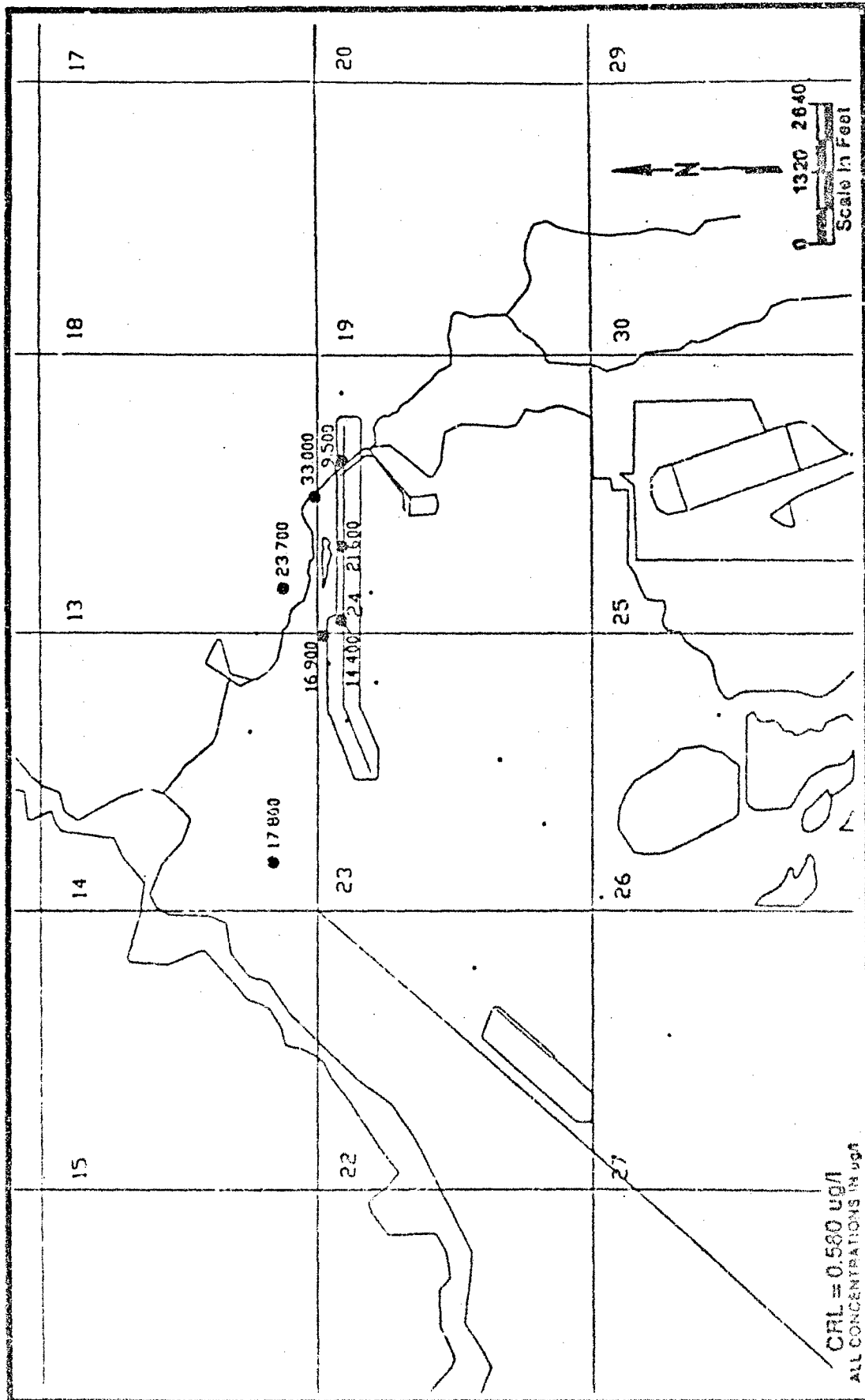
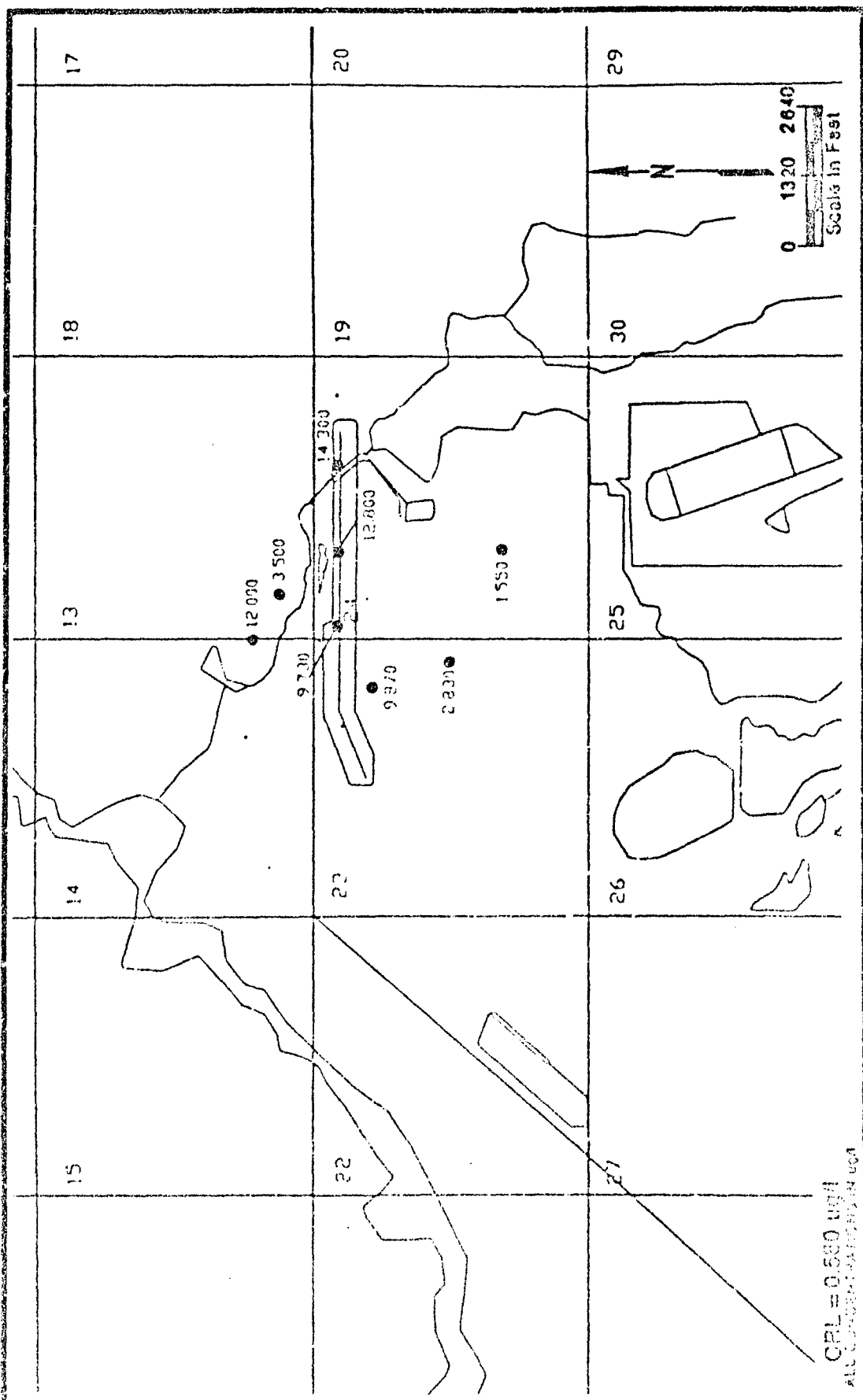


Figure B-104C
THIRD QUARTER, FY87
CHLOROBENZENE DETECTIONS, SAND 3
DENVER AQUIFER
SOURCE: ESE 1988

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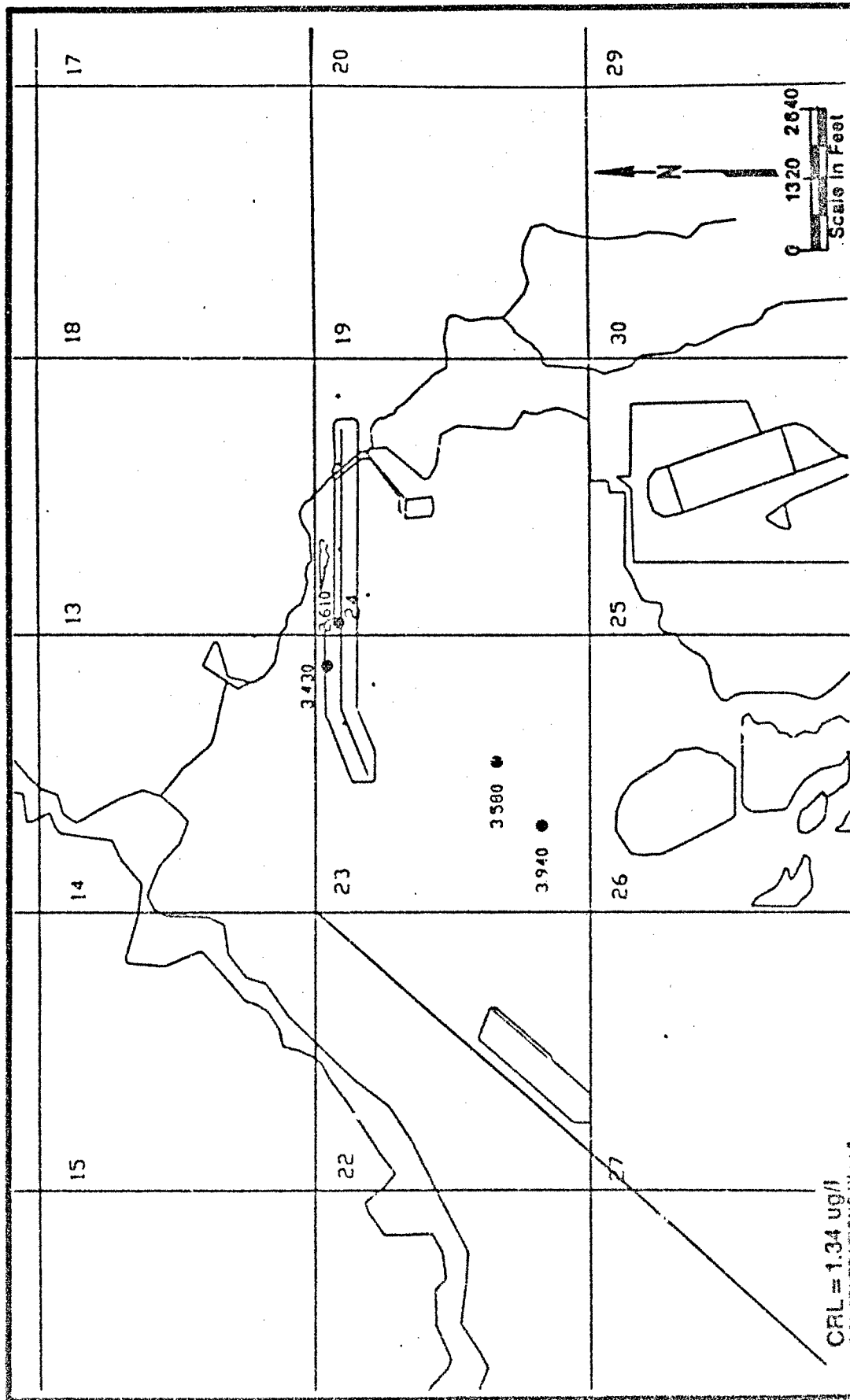
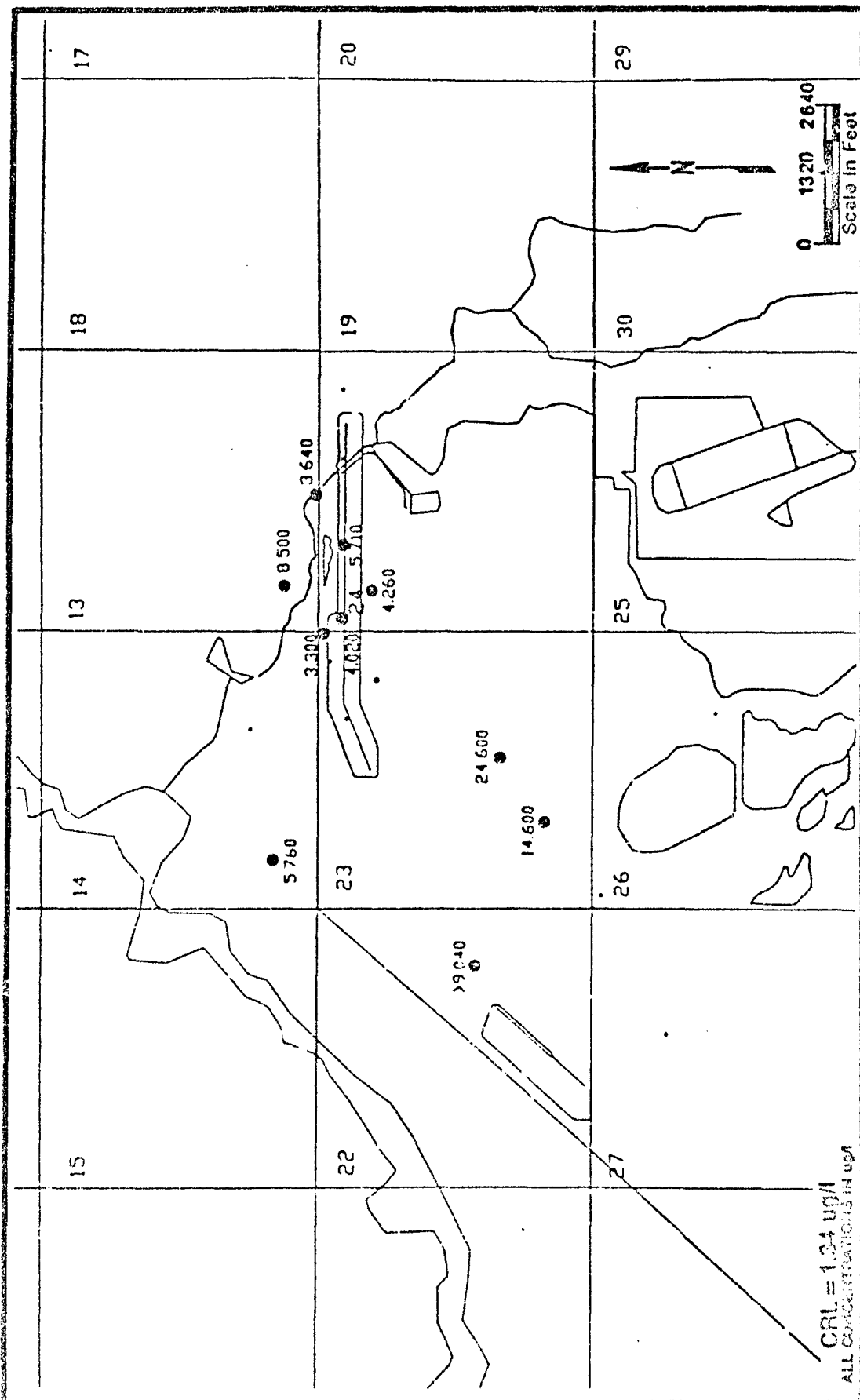
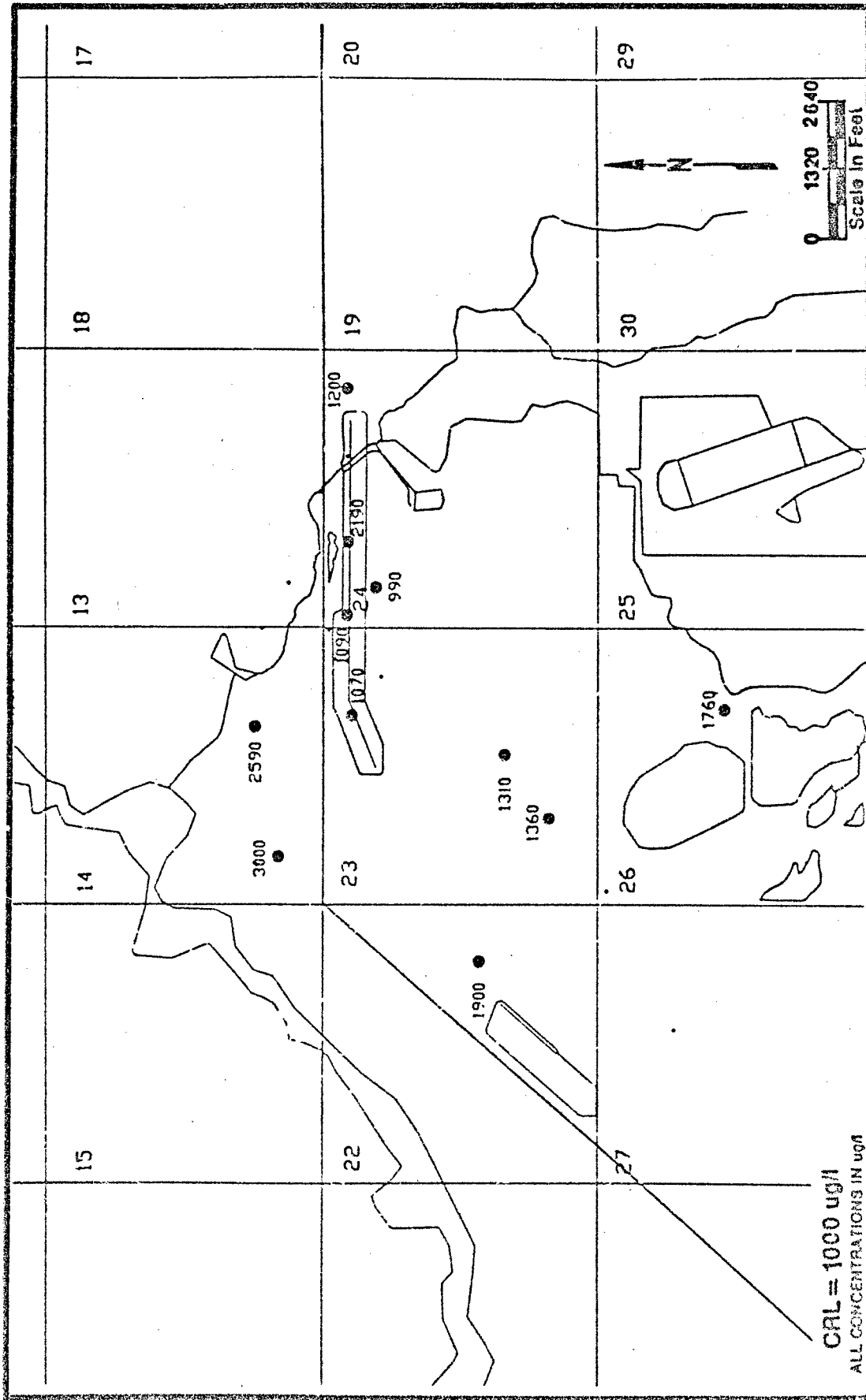


Figure B-105A
FIRST QUARTER, FY87
BENZENE DETECTIONS, SAND 3
DENVER AQUIFER
SOURCE: ESE 1093

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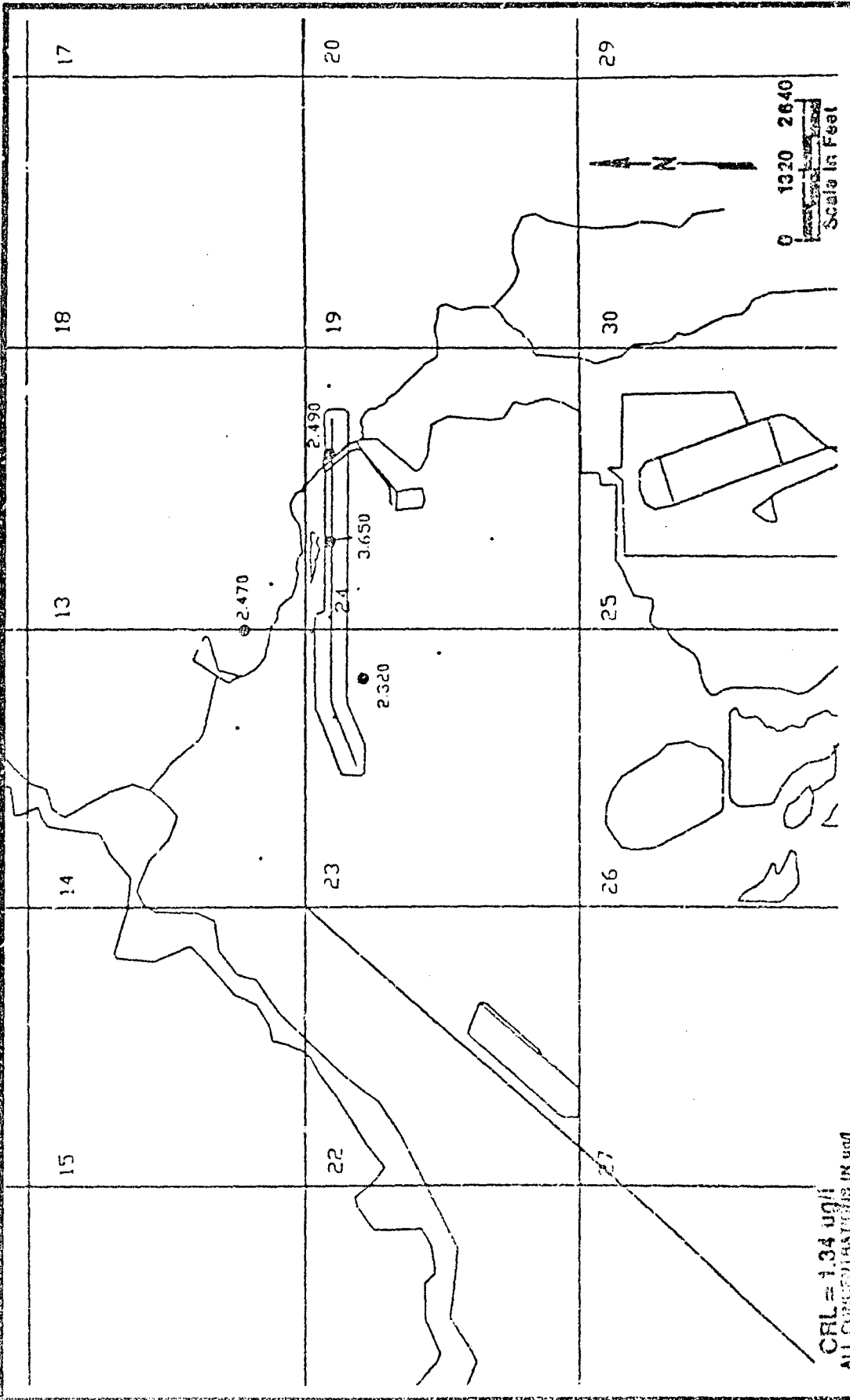


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Figure B-105C
 THIRD QUARTER, FY87
 FLUORIDE DETECTIONS, SAND 3
 DENVER AQUIFER
 SOURCE: ESE 1508



CRL = 1.34 ug/l
ALL CONCENTRATIONS IN ug/l

Figure B-105D
FOURTH QUARTER, FY87
DENZENE DETECTIONS, SAND 3
DENVER AQUIFER
SOURCE: EIS 1003

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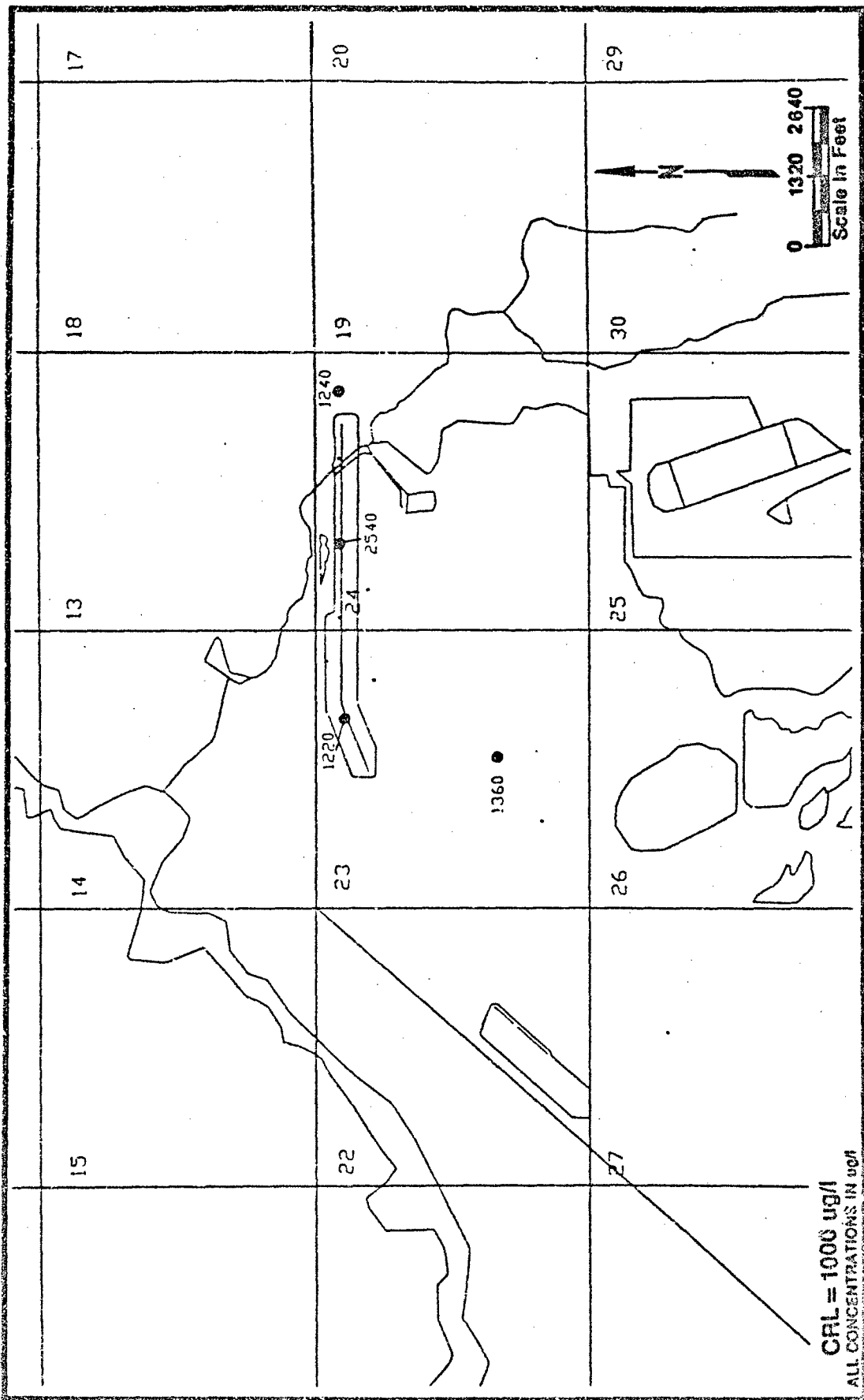


Figure B-108A

FIRST QUARTER, FY87
FLUORIDE DETECTIONS, SAND 3
DENVER AQUIFER
SOURCE: ESE 1989

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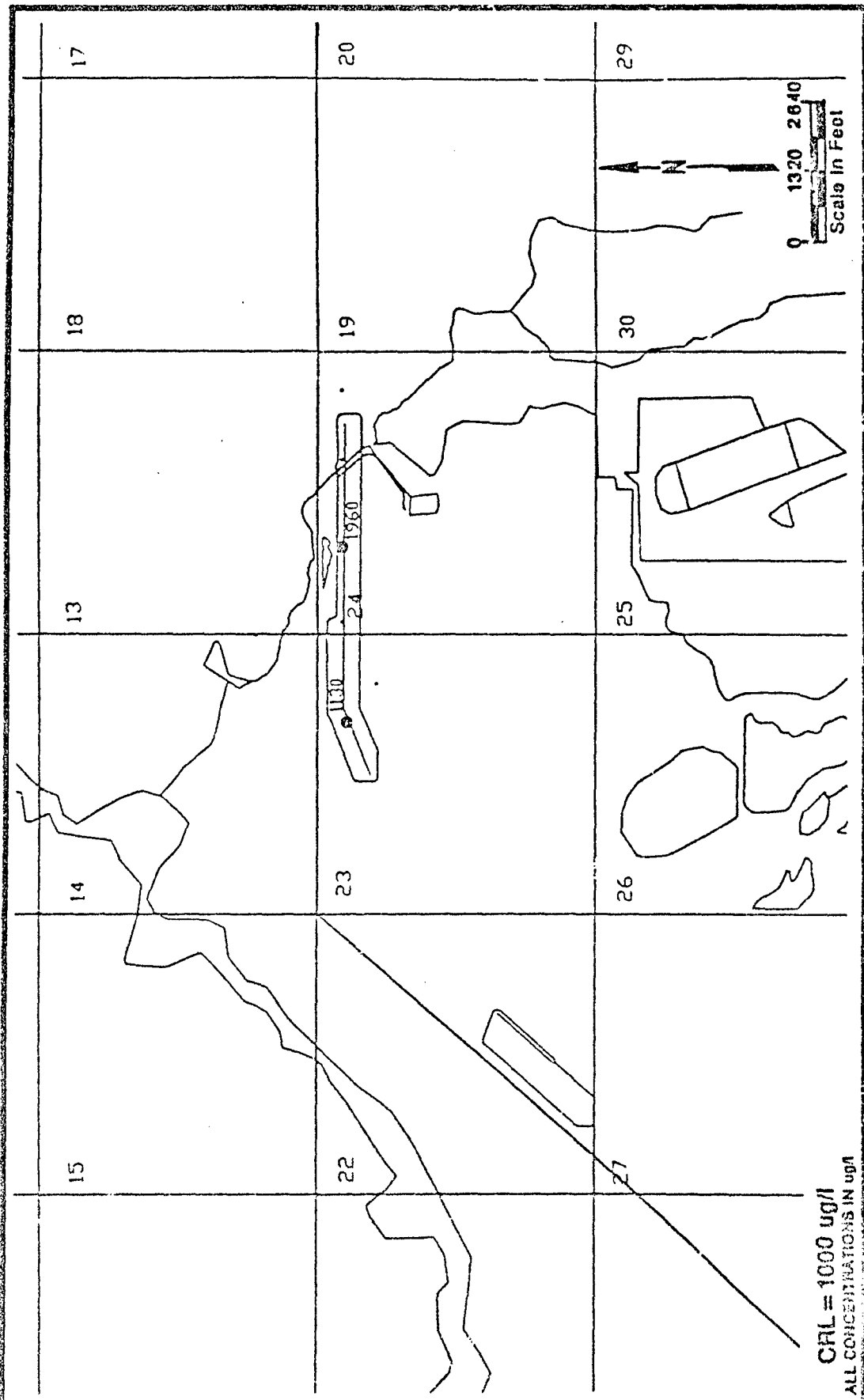


Figure B-108B
SECOND QUARTER, FY87
FLUORIDE DETECTIONS, SAND 3
DENVER AQUIFER
SOURCE: ESE 1023

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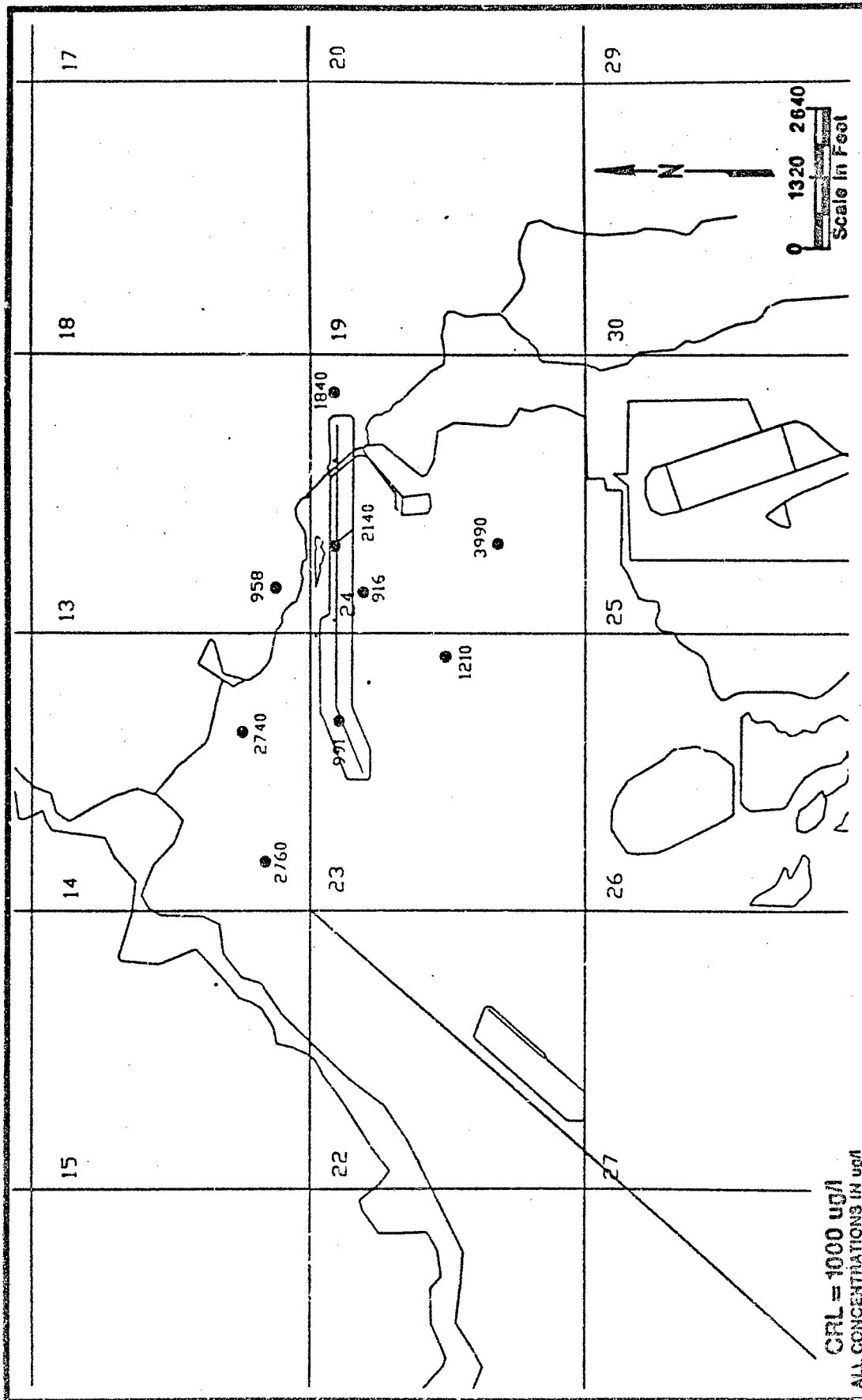
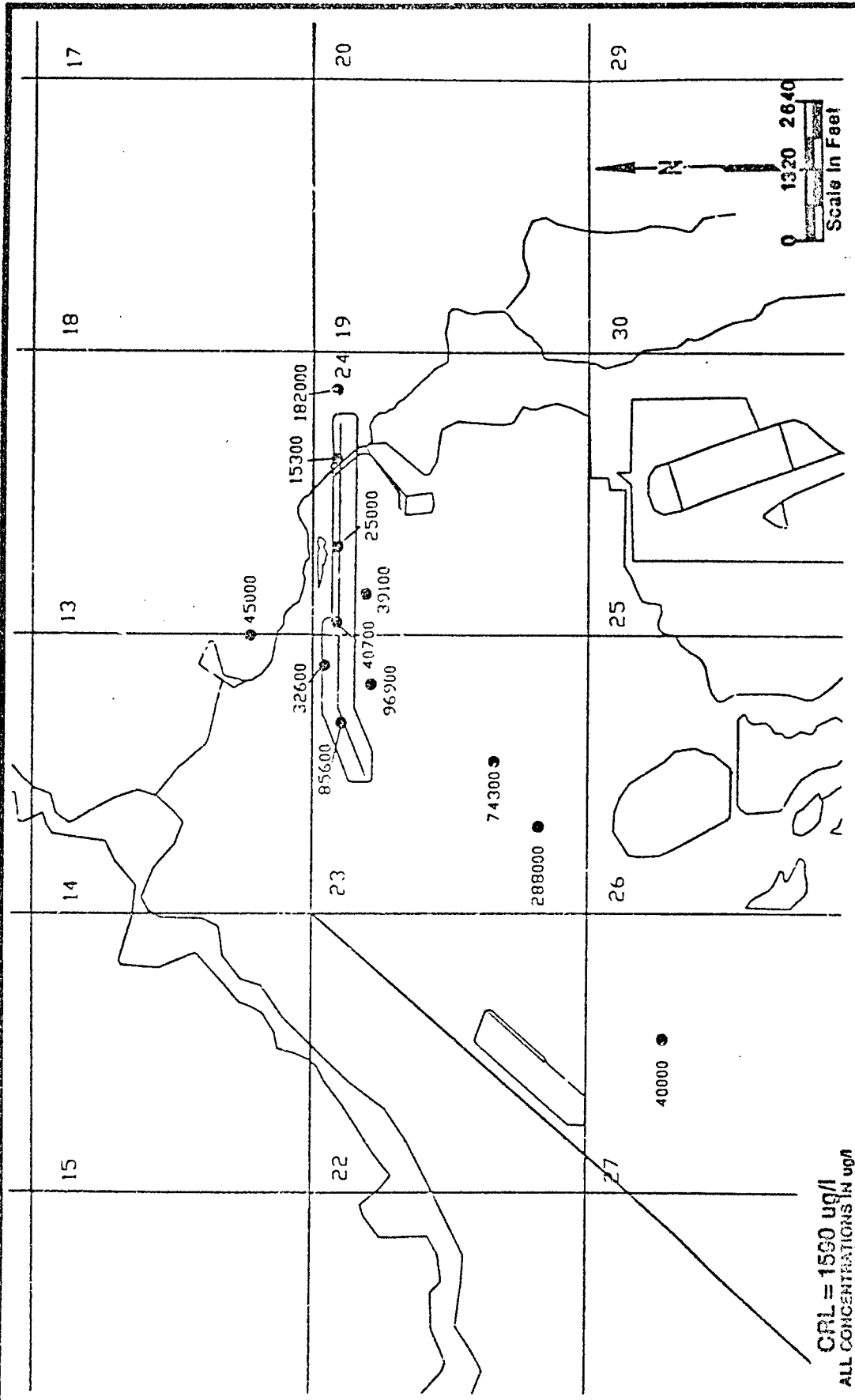


FIGURE B-108C
FOURTH QUARTER, FY87
FLUORIDE DETECTIONS, SAND 3
DENVER AQUIFER
SOURCE: ESE 1003

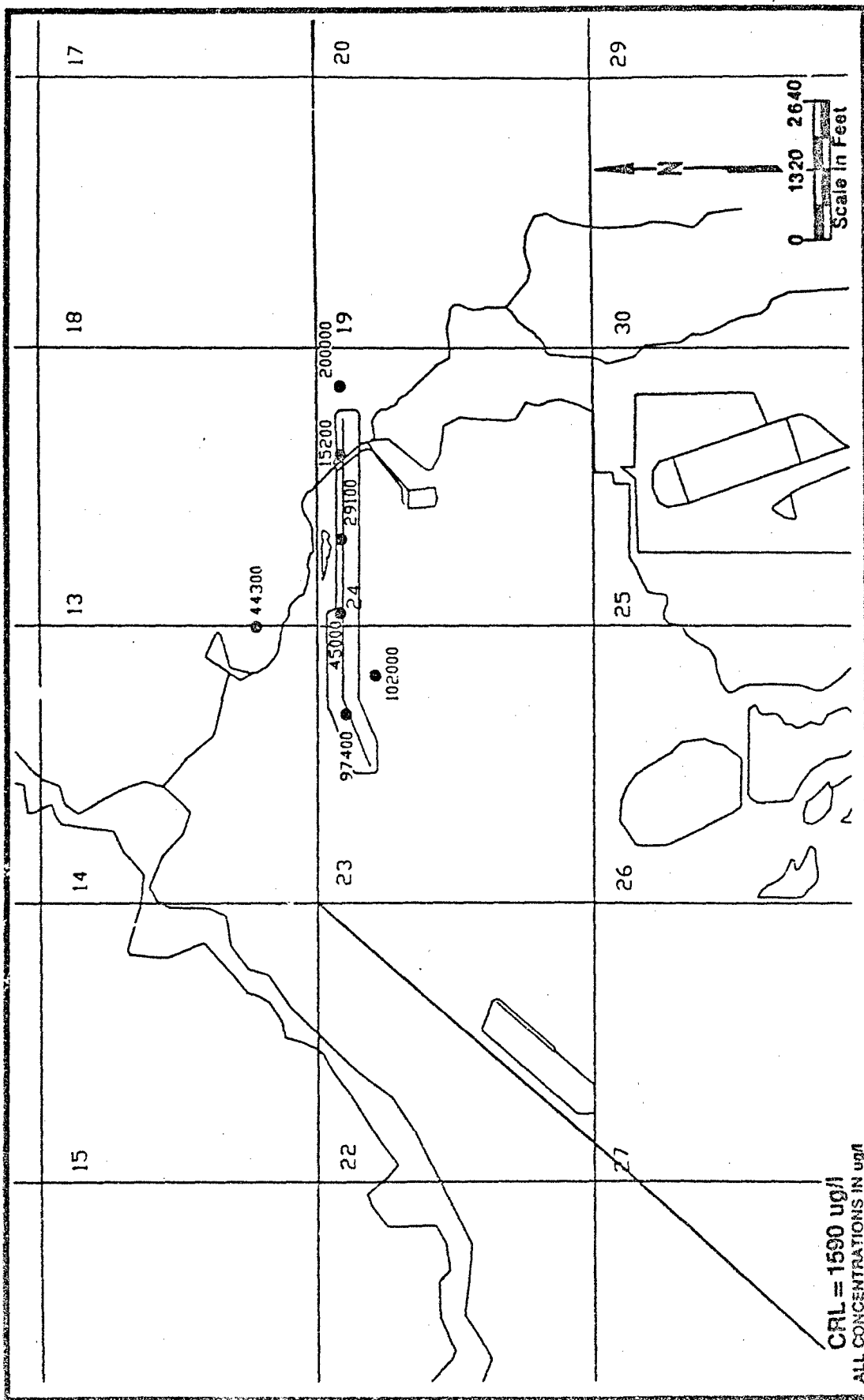
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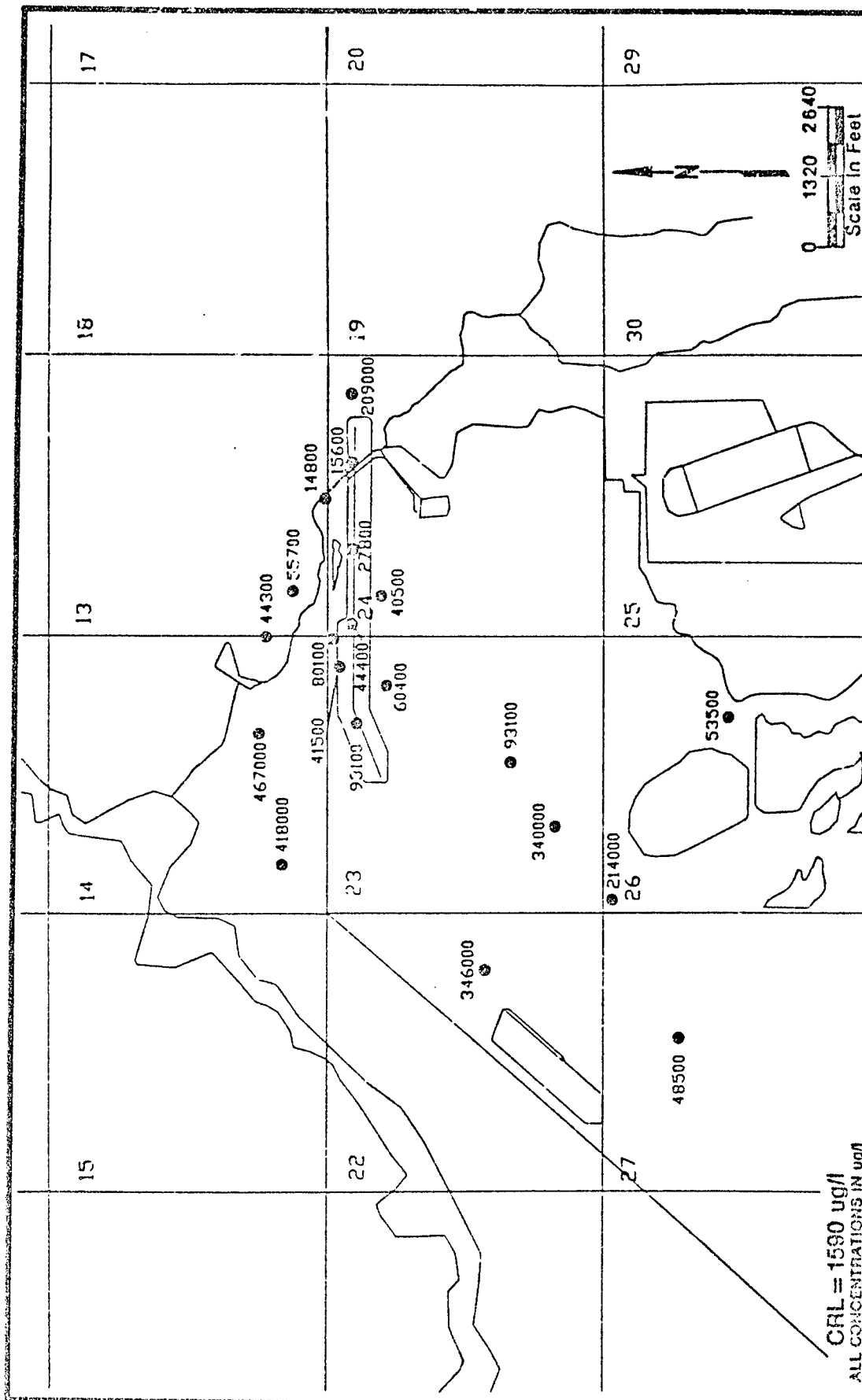
CRL = 1500 ug/l
ALL CONCENTRATIONS IN ug/l

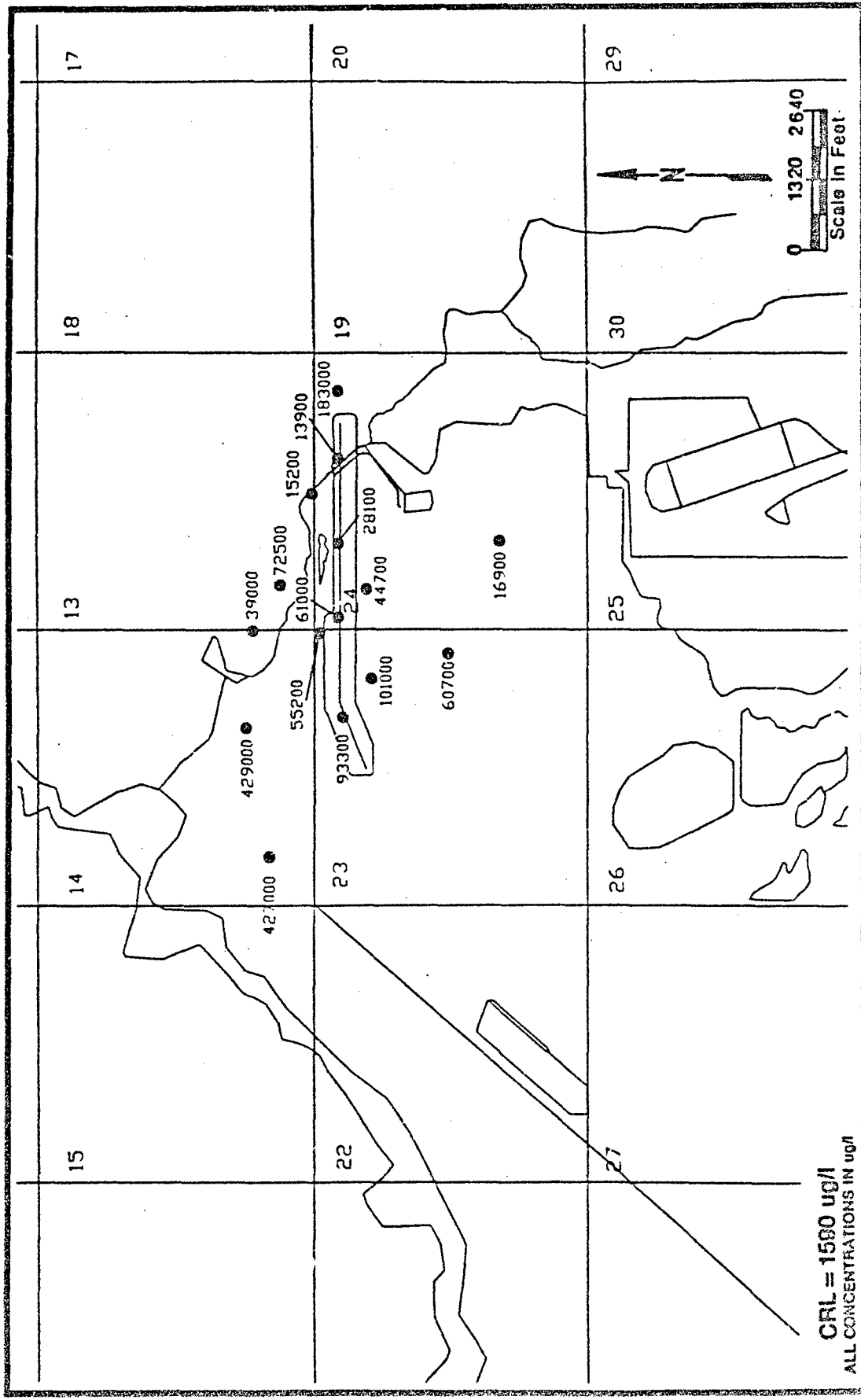
Figure B-107-A
FIRST QUARTER, FY 97
CHLORIDE DETECTIONS, SAND 3
DENVER AQUIFER
SOURCE ESD 1000

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CRL = 1580 ug/l
ALL CONCENTRATIONS IN ug/l

Figure B-107D
FOURTH QUARTER FY87
CHLORIDE DETECTIONS, SAND 3
DENVER AQUIFER
SOURCE: ESE 1003

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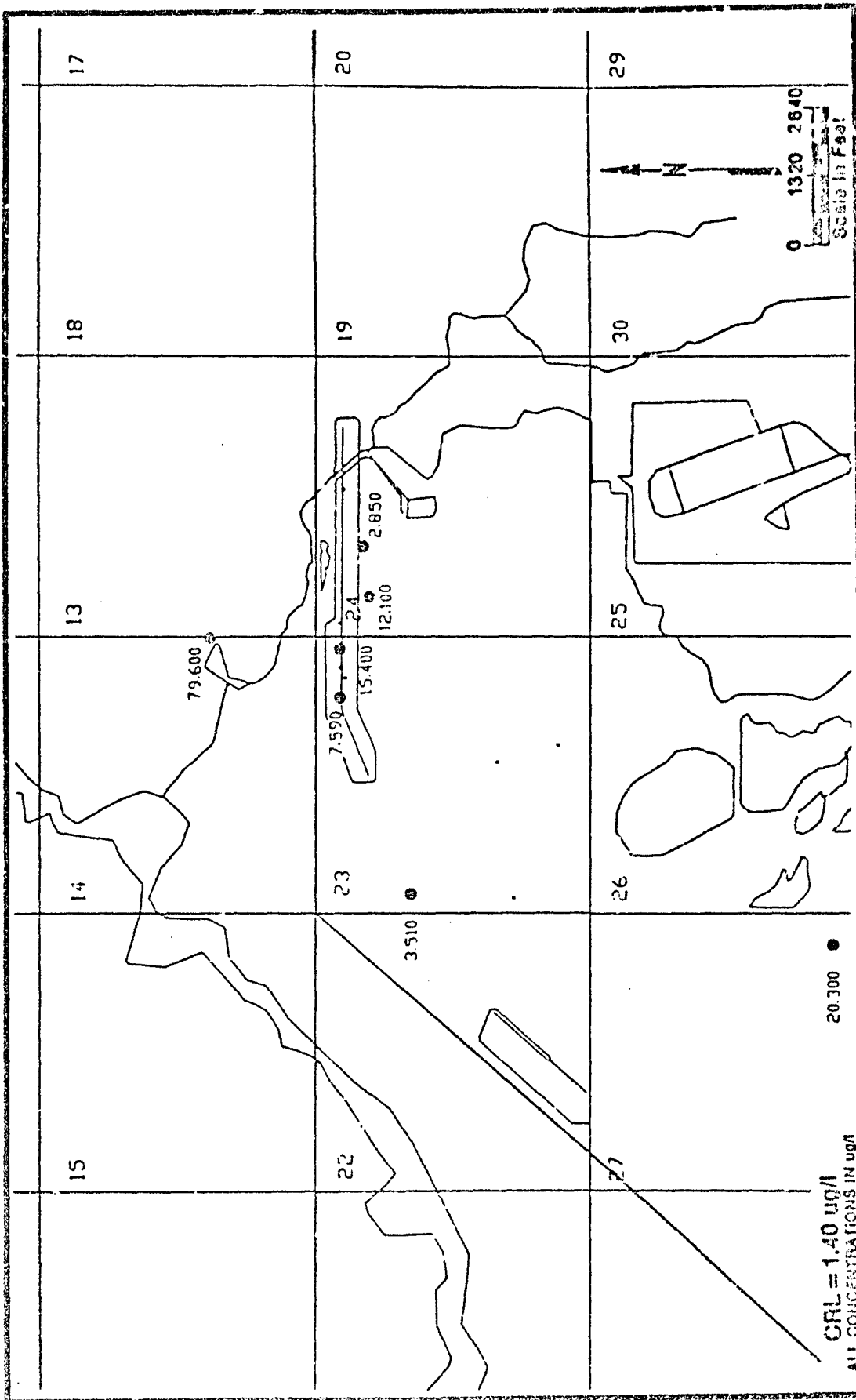
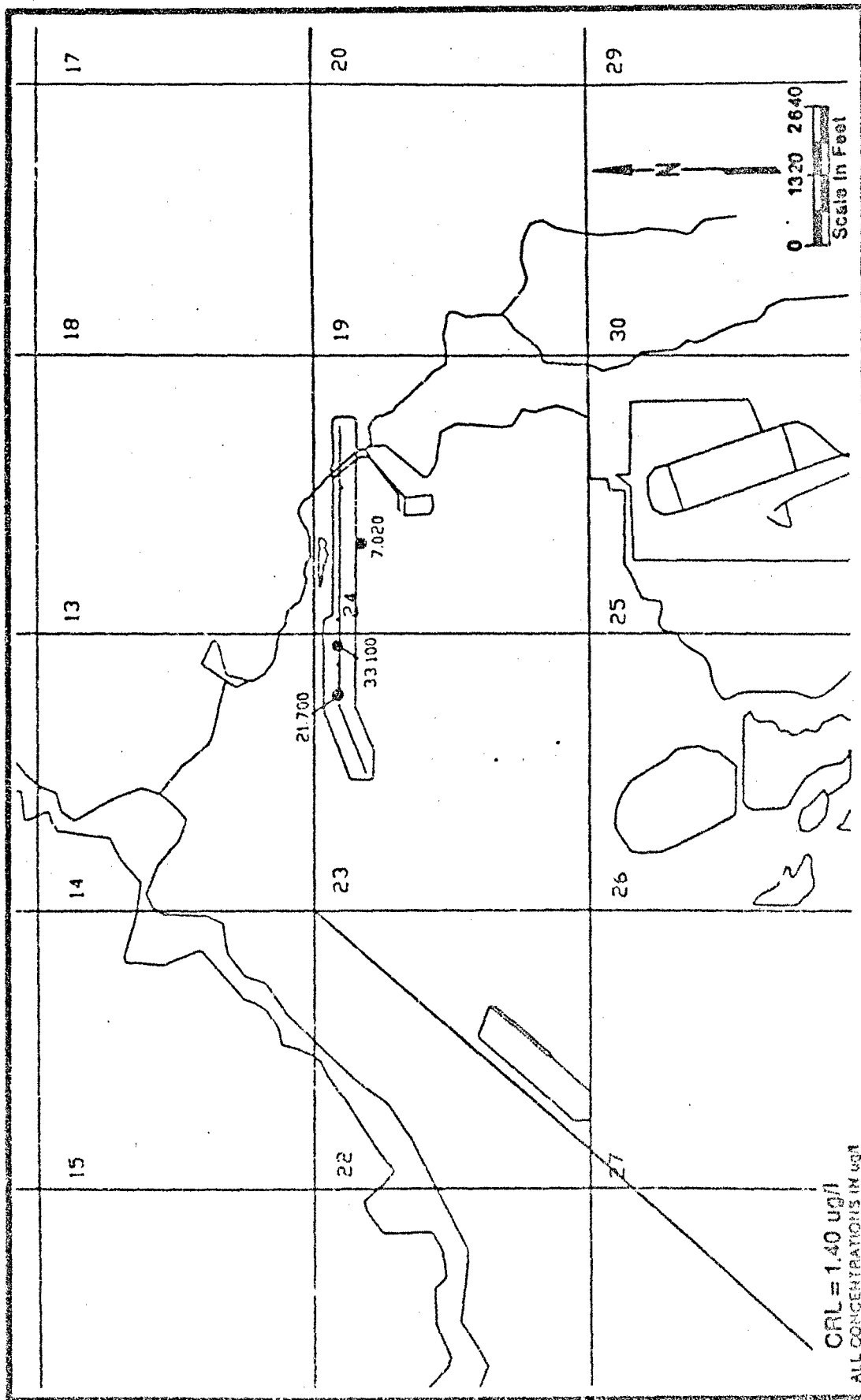


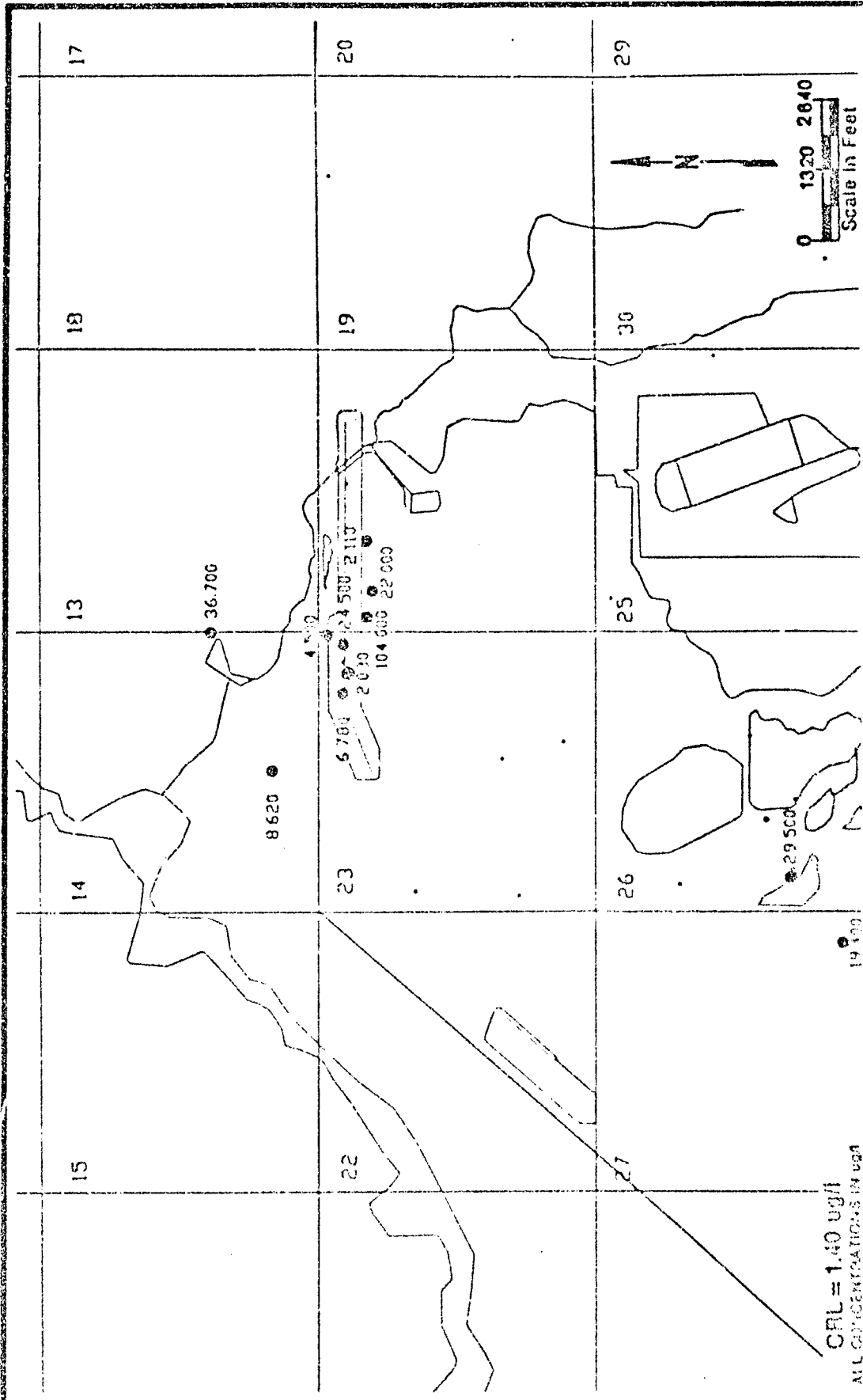
Figure B-108A
FIRST QUARTER, FY87
CHLOROFORM DETECTIONS, SAND 2
DENVER AQUIFER

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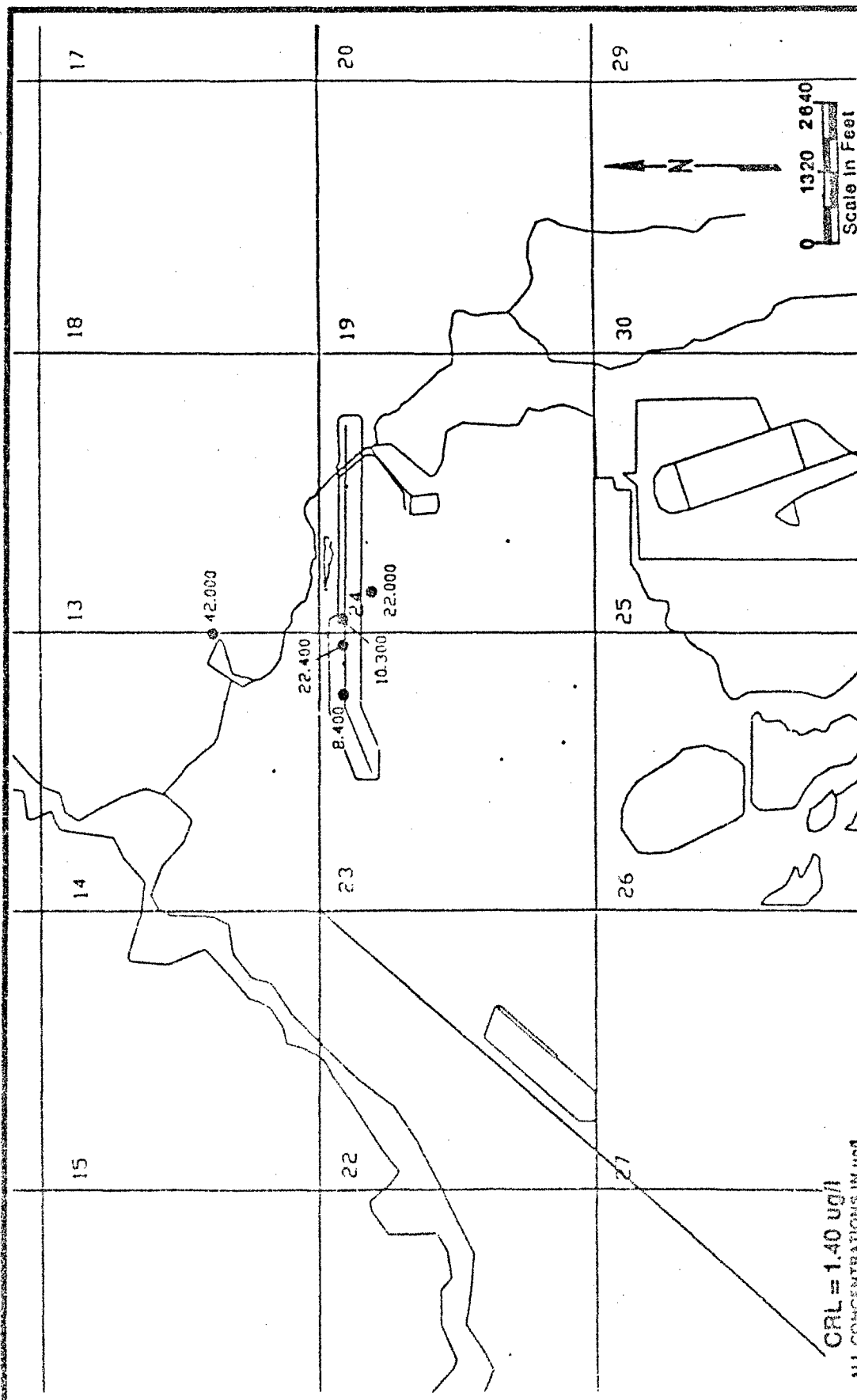
Prepared for:
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Figure B-103B
SECOND QUARTER, FY87
CHLOROFORM DETECTIONS, SAND 2
DENVER AQUIFER
500402, ESE 1003



THIRD QUARTER, FY87
CHLOROFORM DETECTIONS, SAND 2
DENVER ARSENAL

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Figure B-108D
 FOURTH QUARTER, FY87
 CHLOROFORM DETECTIONS, SAND 2
 DENVER AQUIFER
 SOURCE: PSE 1988

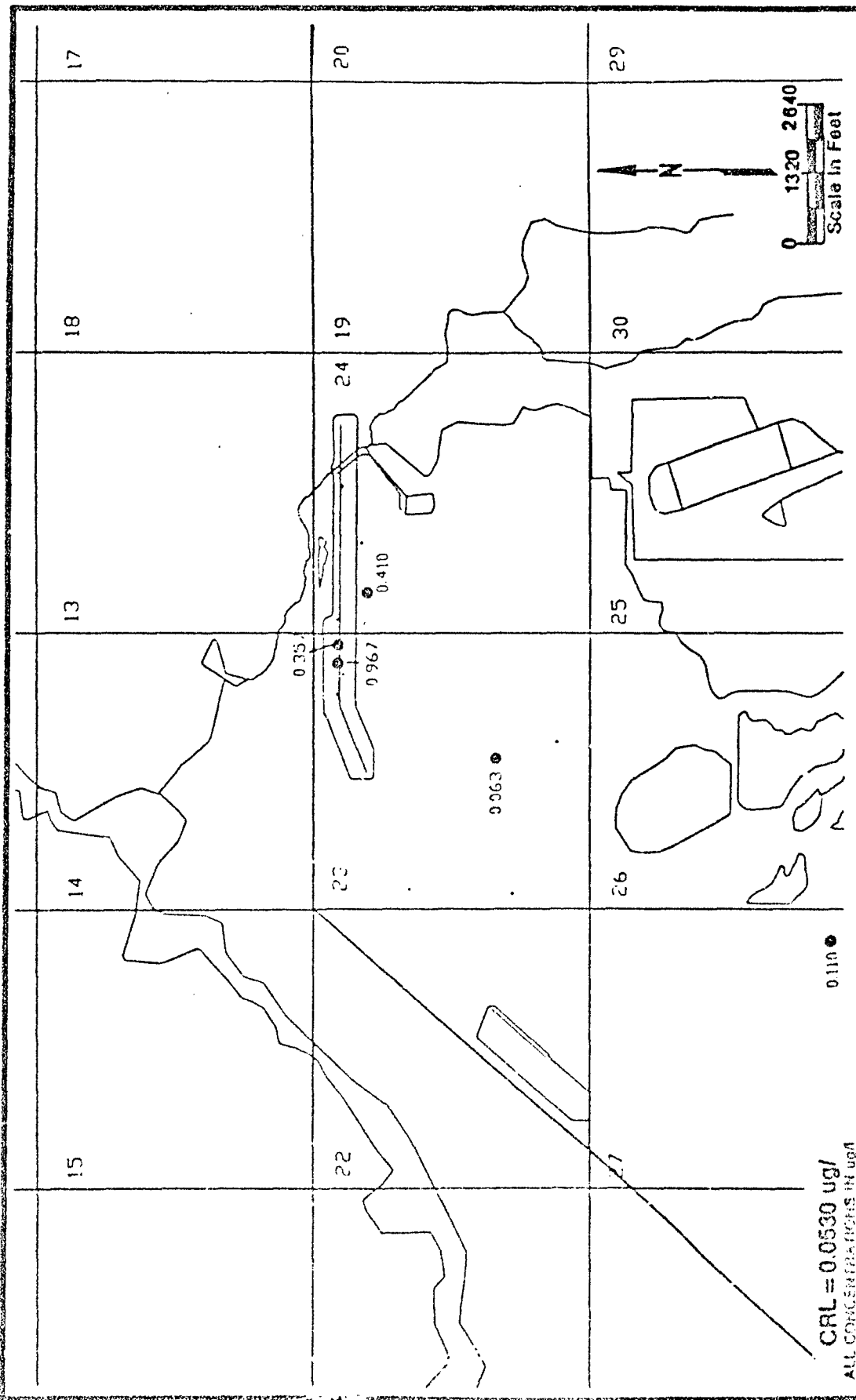
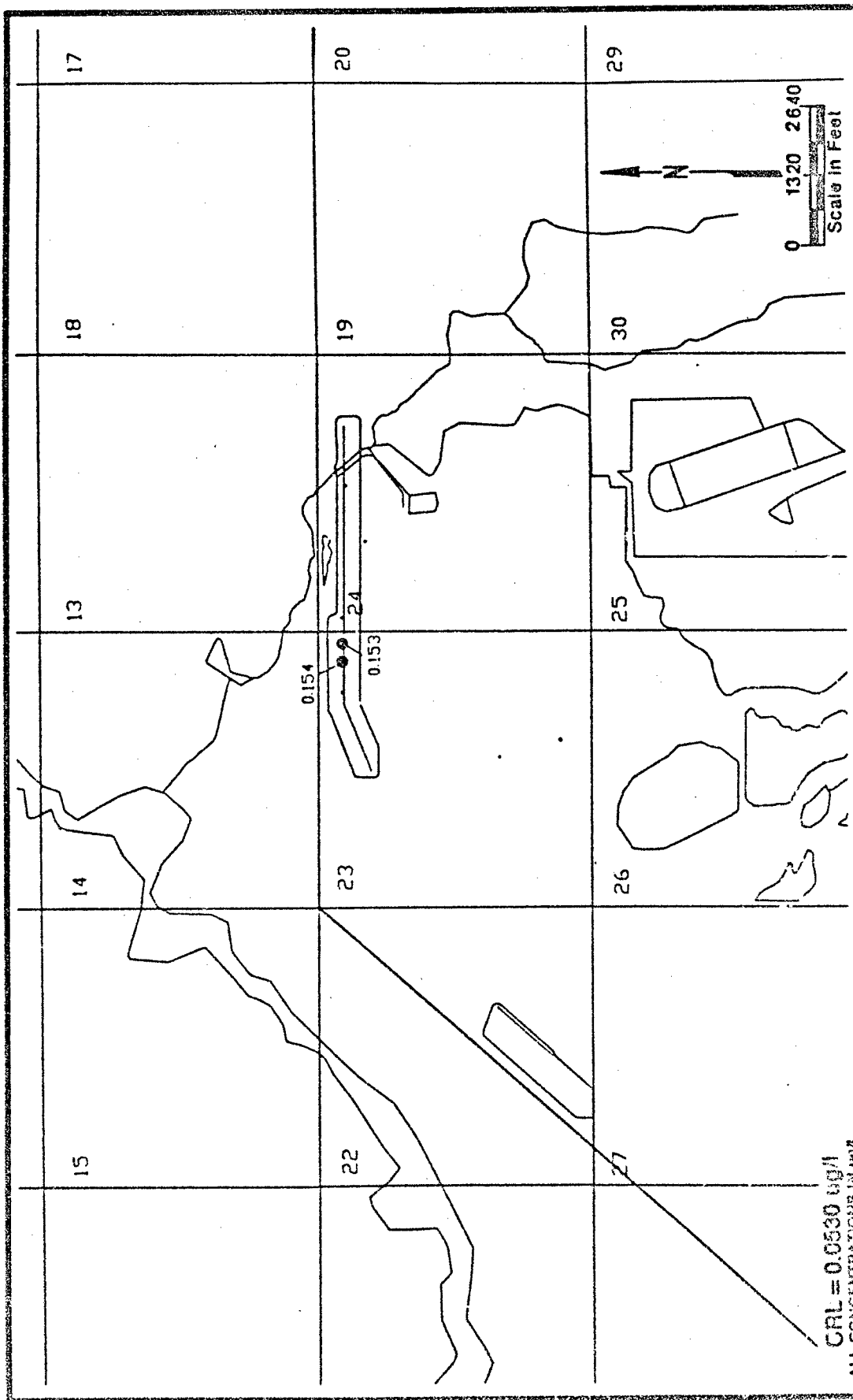


Figure B-109A
FIRST QUARTER, FY87
DIELDRIN DETECTIONS, SAND 2
DENVER AQUIFER
SOURCE: EGE 1-88

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CRL = 0.0530 ug/l
ALL CONCENTRATIONS IN ug/l

FIGURE B-109B

SECOND QUARTER, FY87
DIELDRIN DETECTIONS, SAND 2
DENVER AQUIFER

SOURCE: ESE 1988

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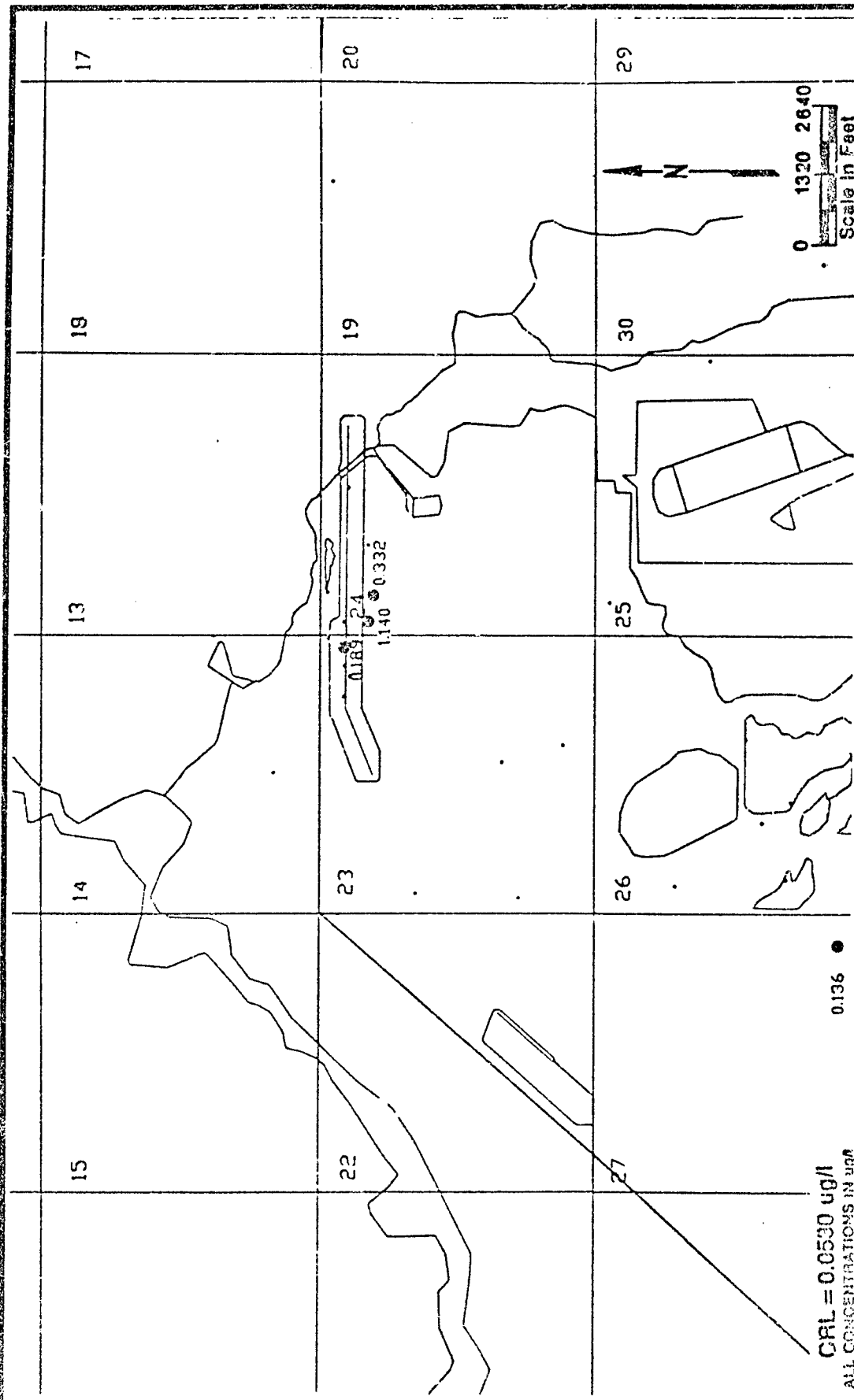


Figure B-103C
THIRD QUARTER, FY87
DIELDRIN DETECTIONS, SAND 2
DENVER AQUIFER
SOURCE: ESE 103B

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Aberdeen Proving Ground, Maryland

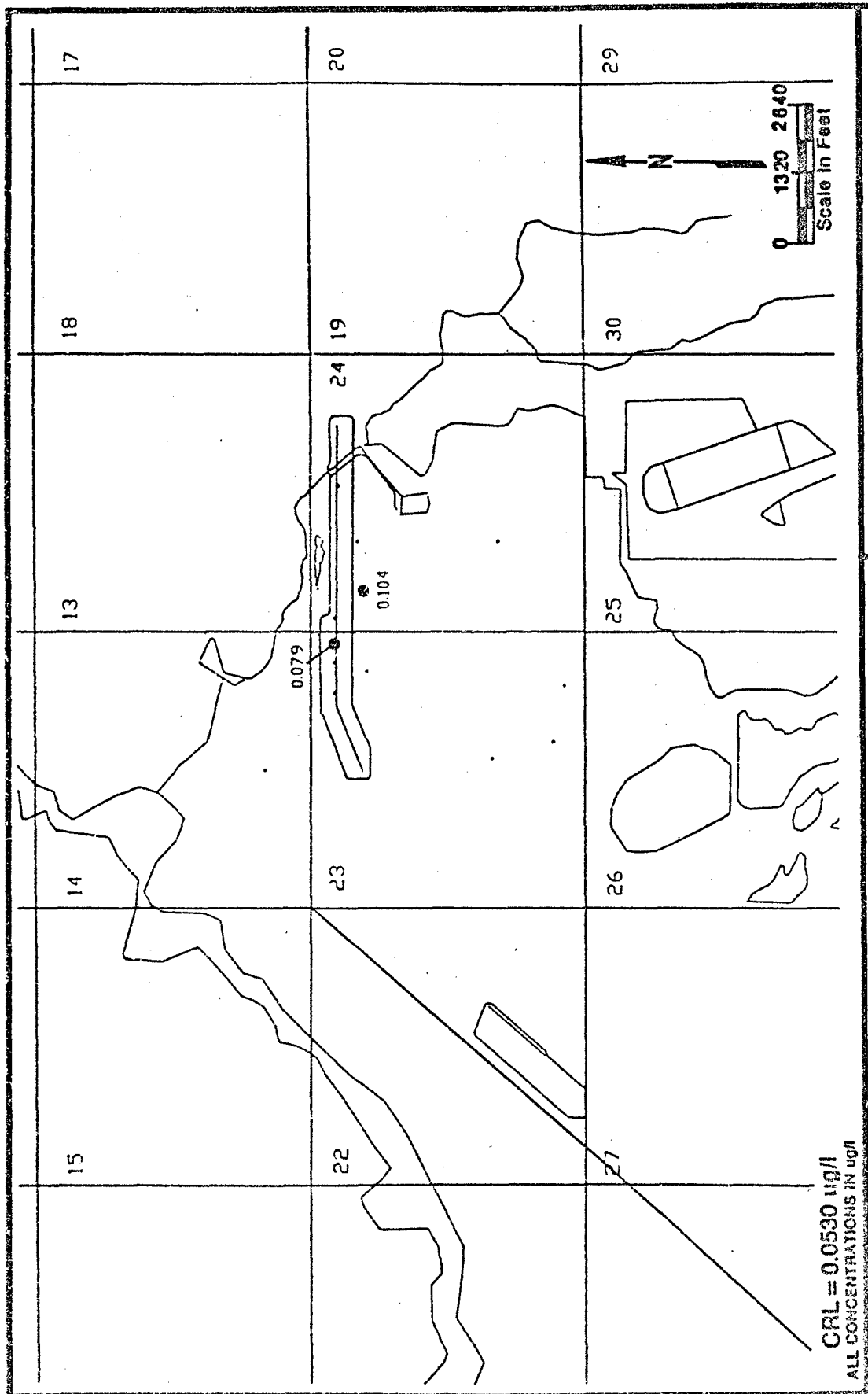


Figure B-109D
FOURTH QUARTER, FY87
DIELDRIN DETECTIONS, SAND 2
DENVER AQUIFER
SOURCE: ESE, 1988

Prepared for:
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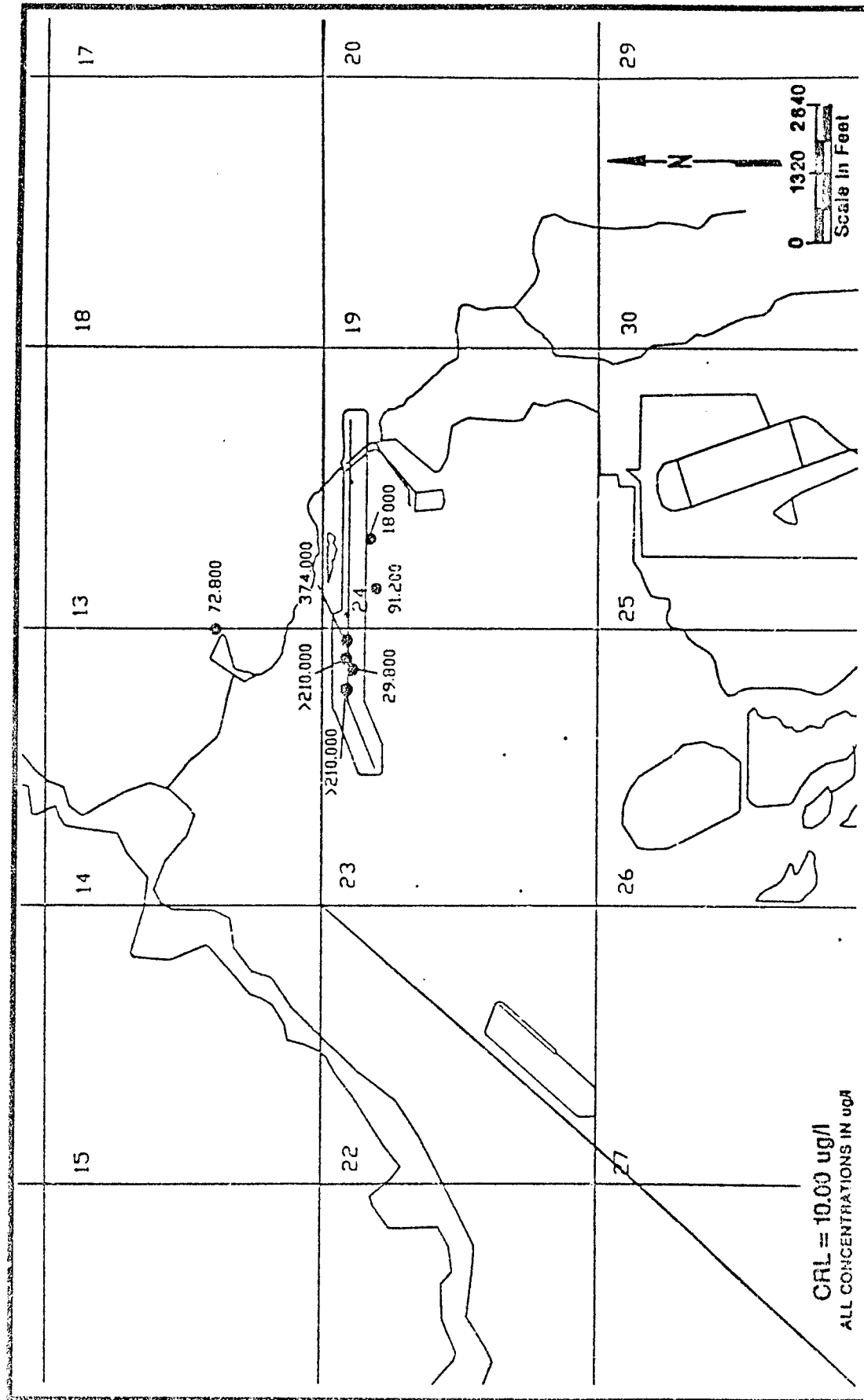
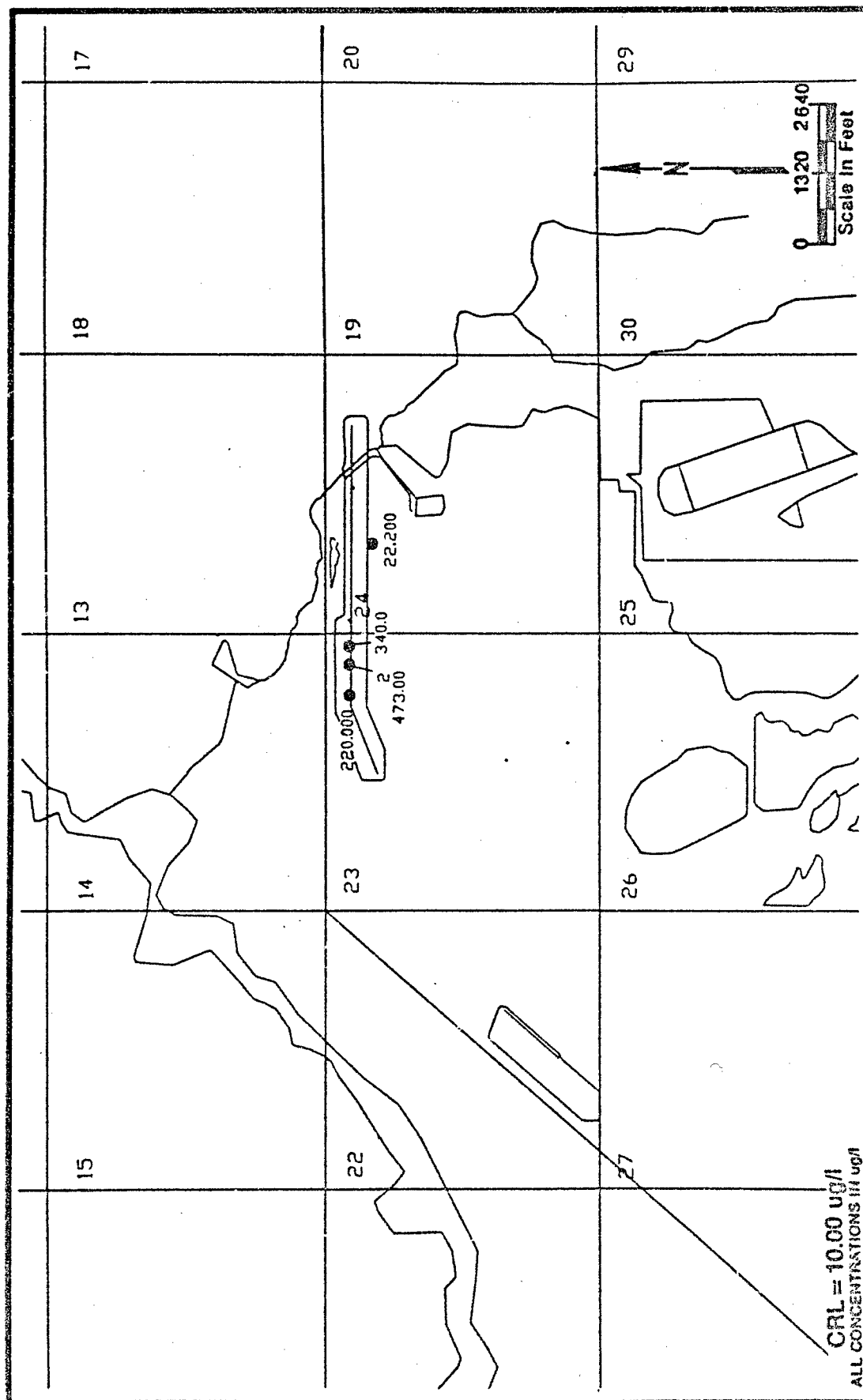


Figure B-110A
 FIRST QUARTER, FY87
 DIMP DETECTIONS, SAND 2
 DENVER AQUIFER
 SOURCE: ESE 1989

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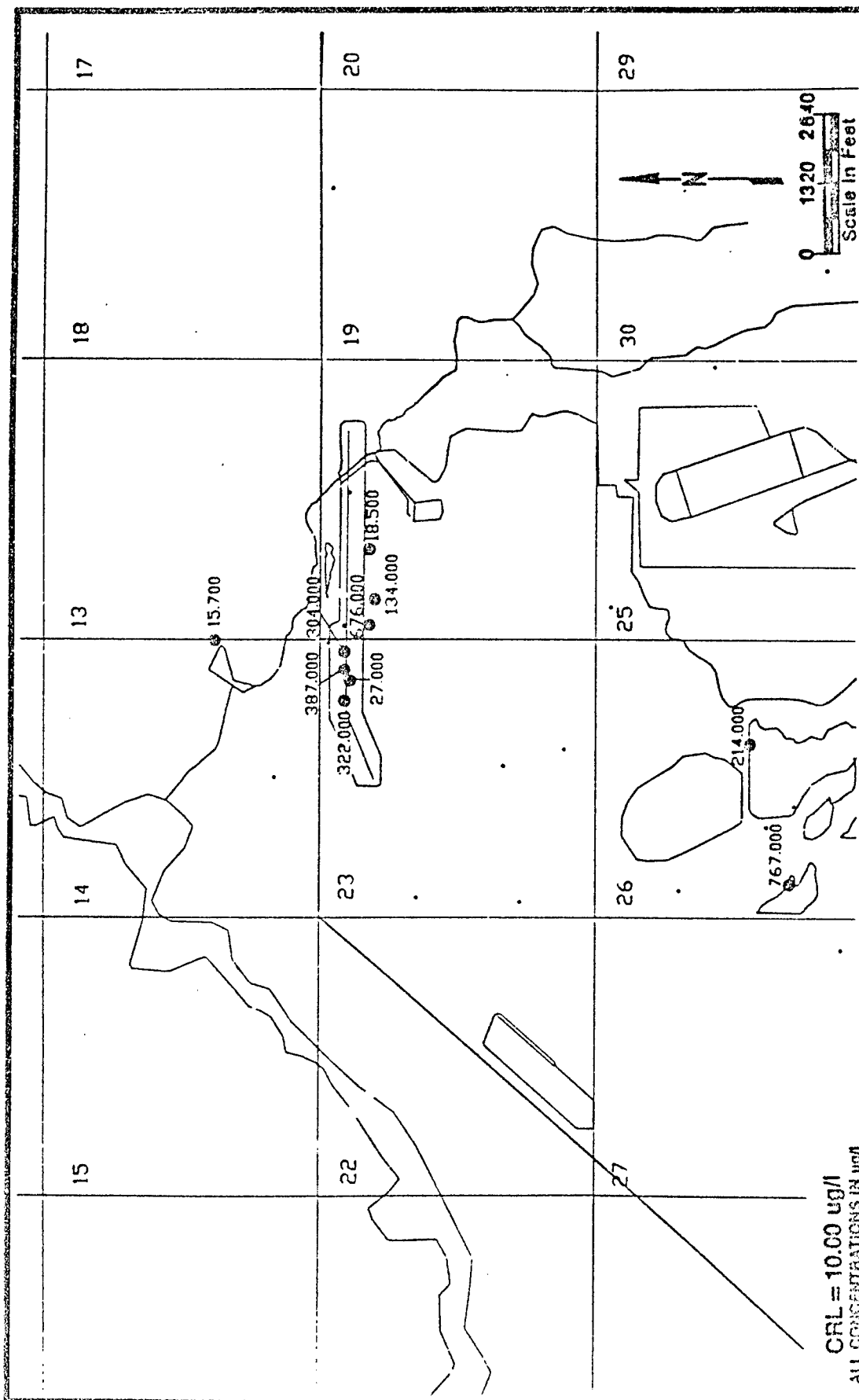
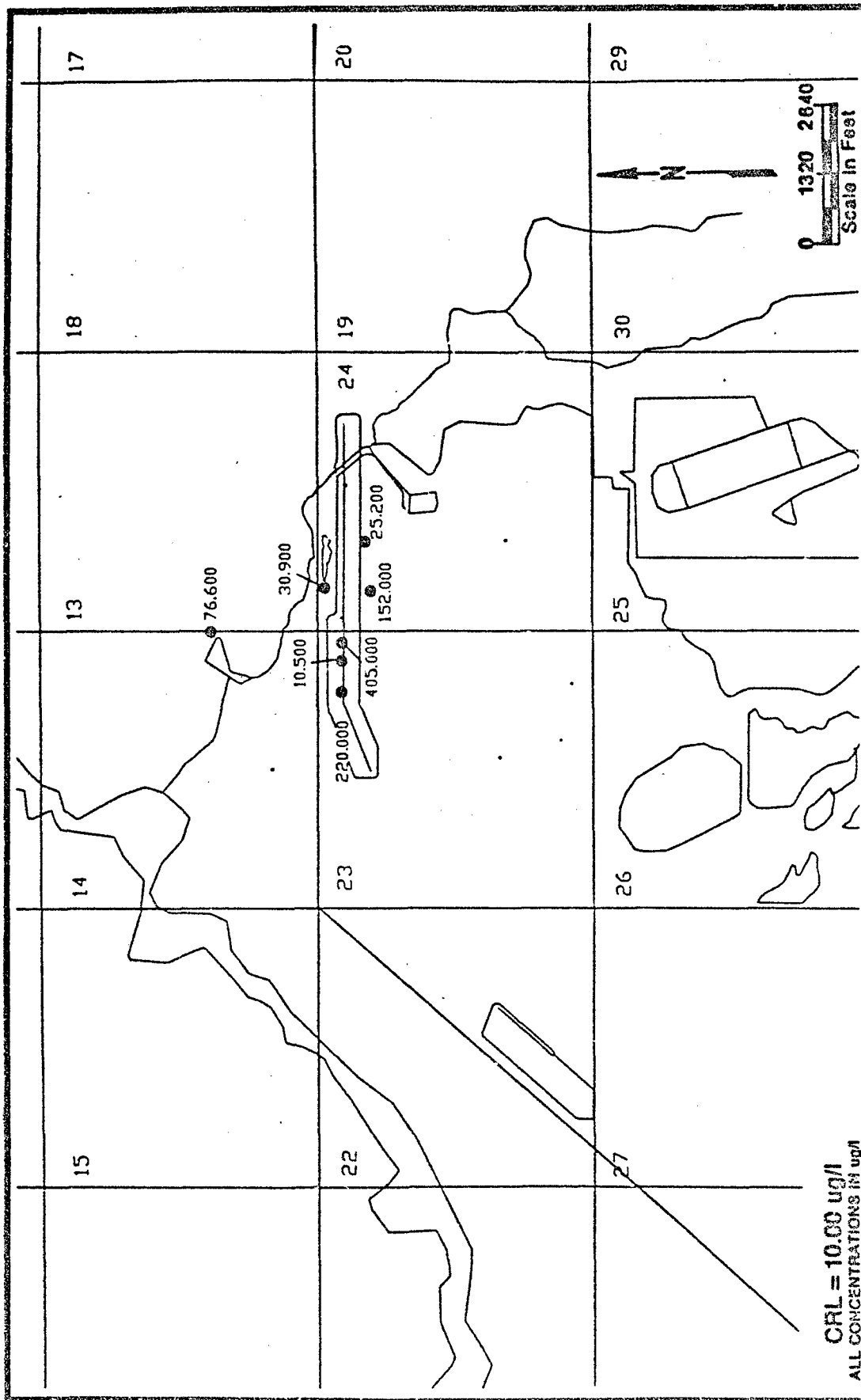


Figure B-110C
THIRD QUARTER, FY87
DIMP DETECTIONS, SAND 2
DENVER AQUIFER
SOURCE: ESE 1988

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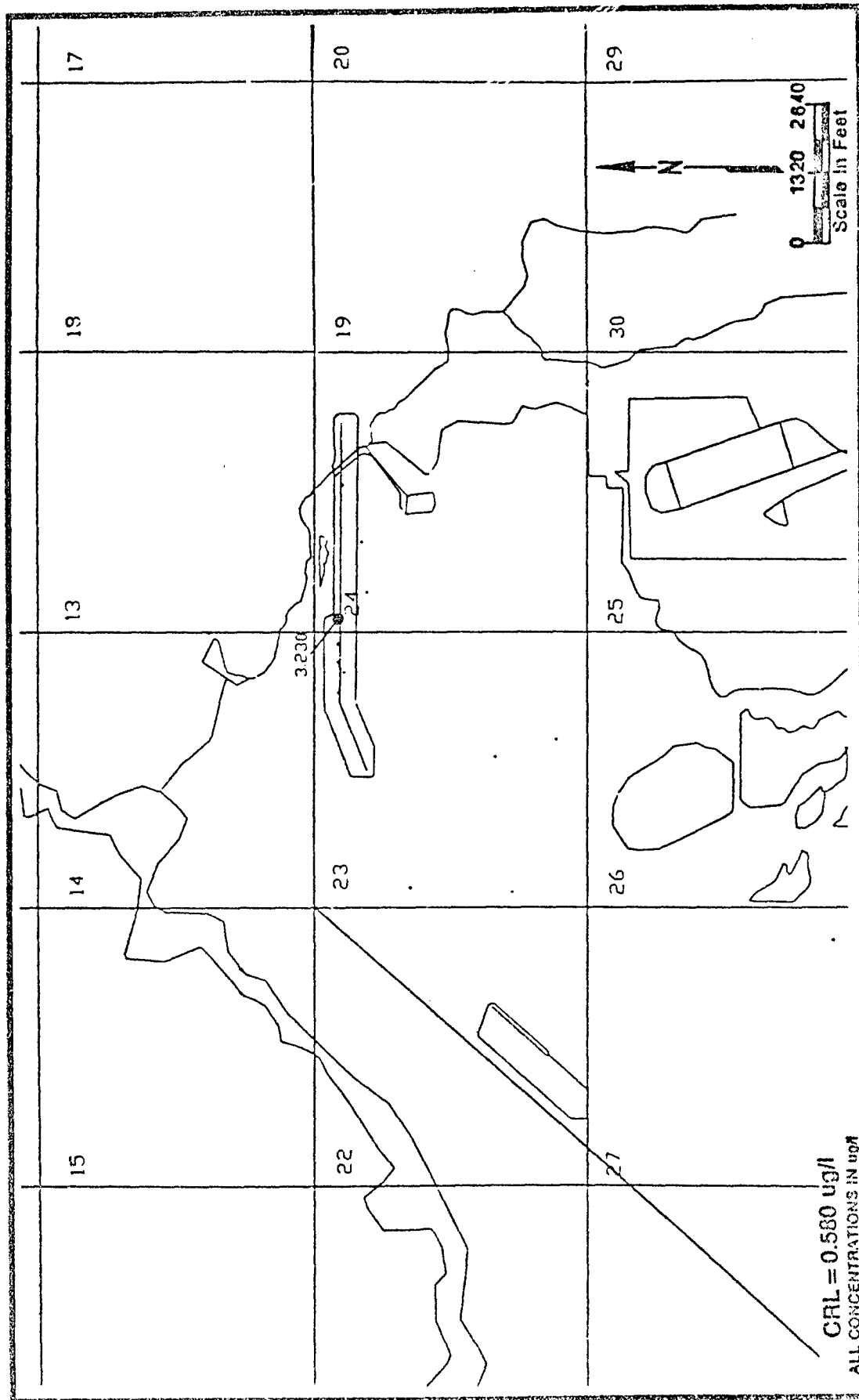
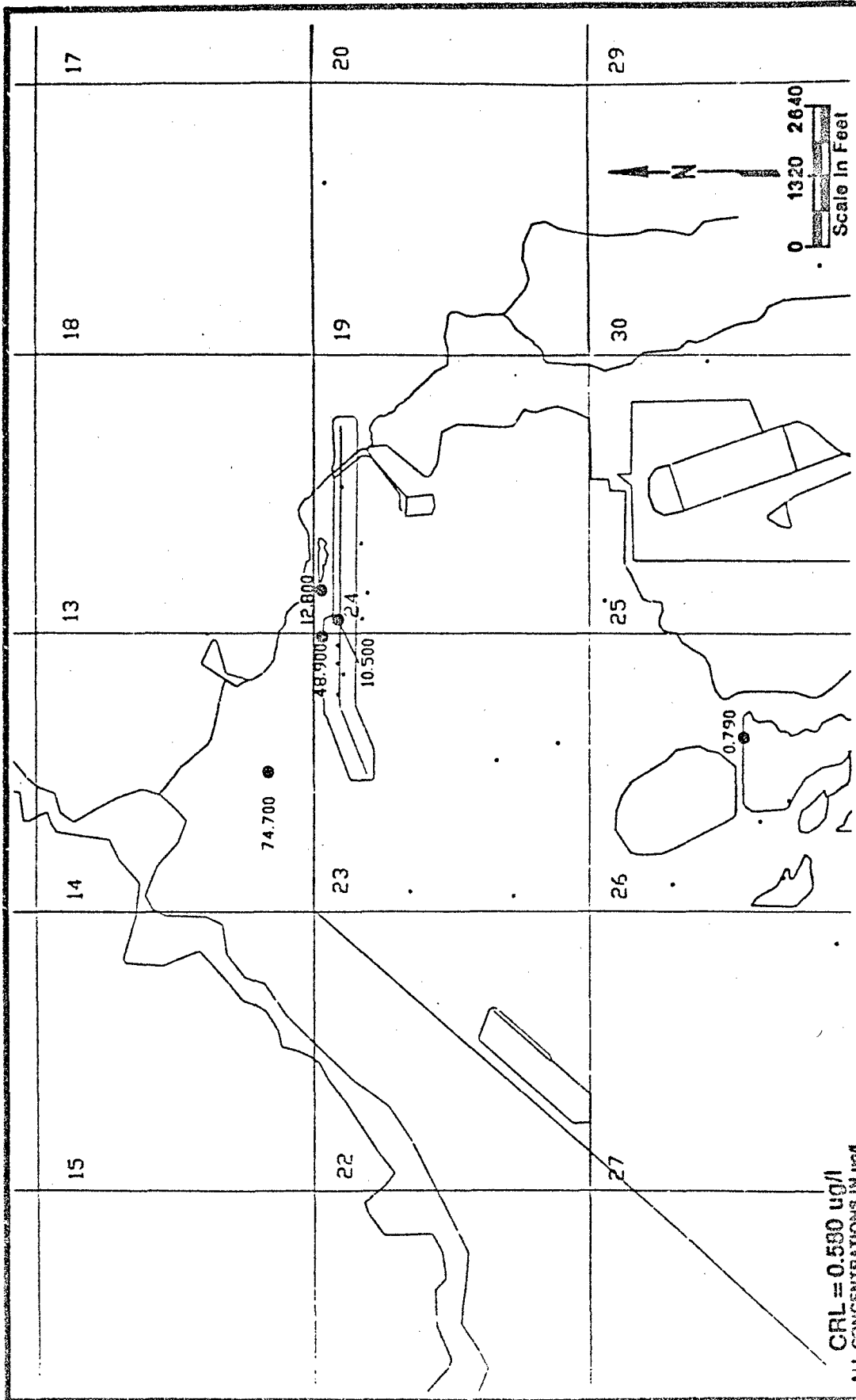


Figure B-111A
FIRST QUARTER, FY 87
CHLOROBENZENE DETECTIONS, SAND 2
DENVER AQUIFER
SOURCE: ESE 1988

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Figure B-111B
 THIRD QUARTER, FY 87
 CHLOROBENZENE DETECTIONS, SAND 2
 DENVER AQUIFER
 SOURCE: ESE 108R

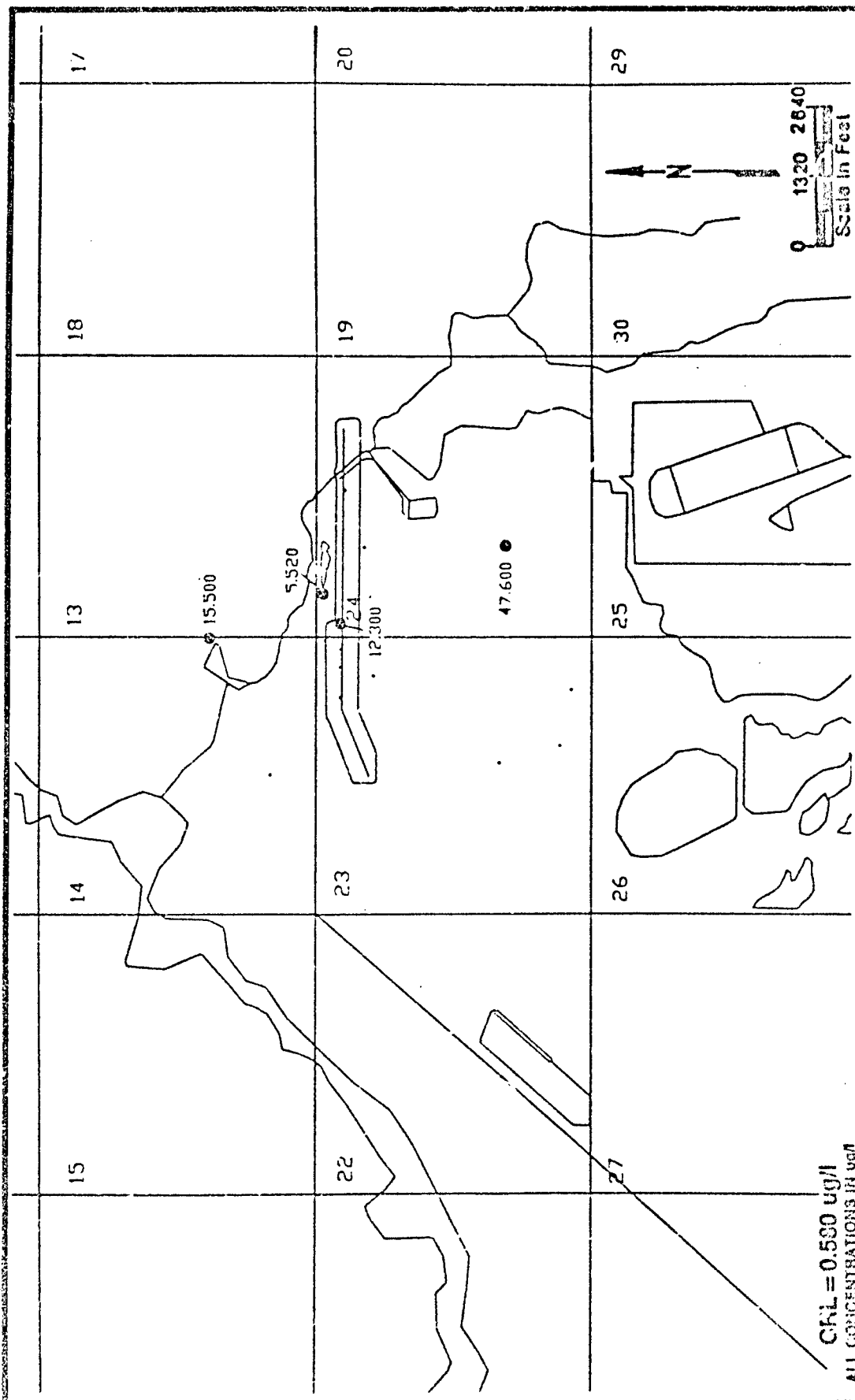
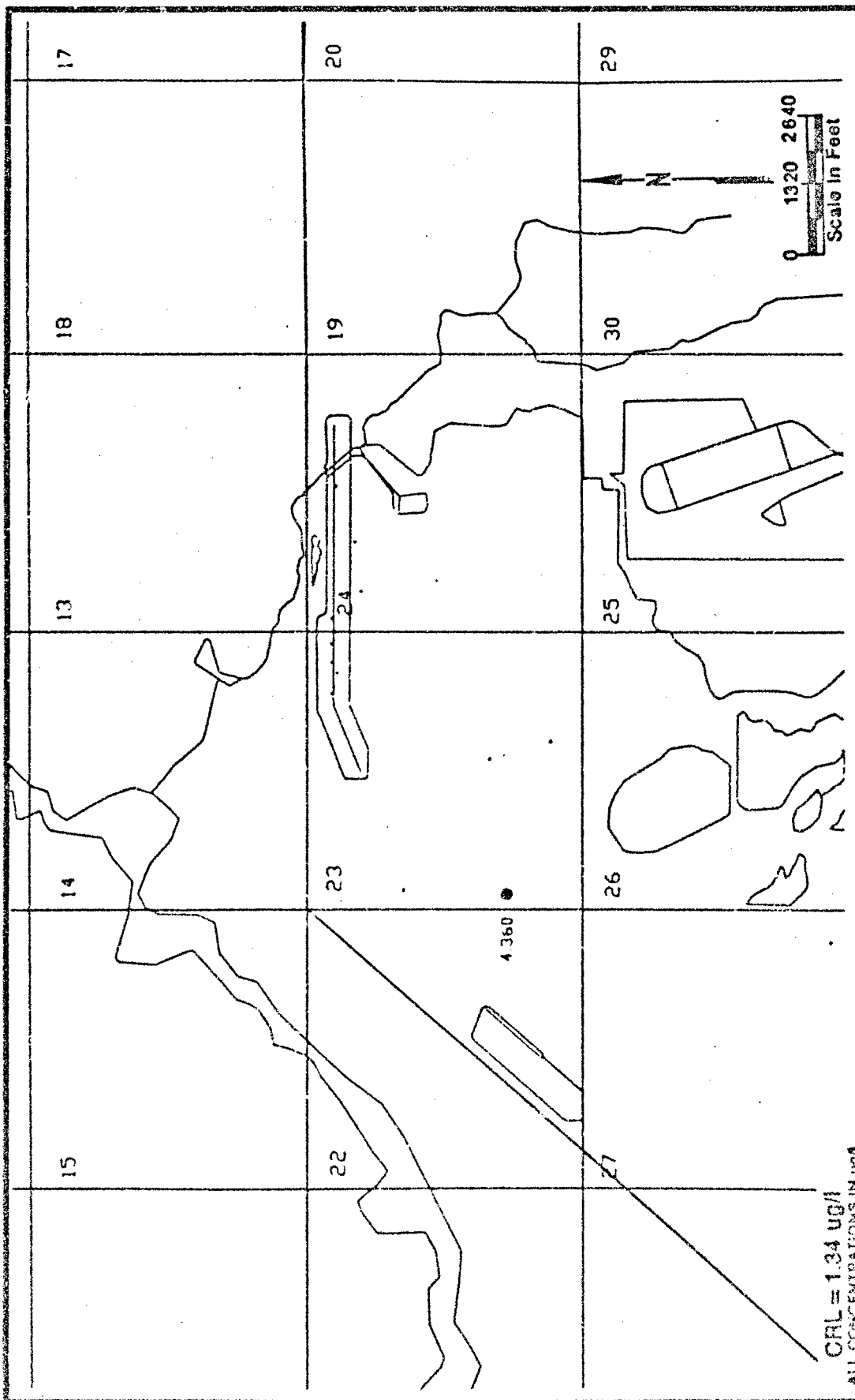


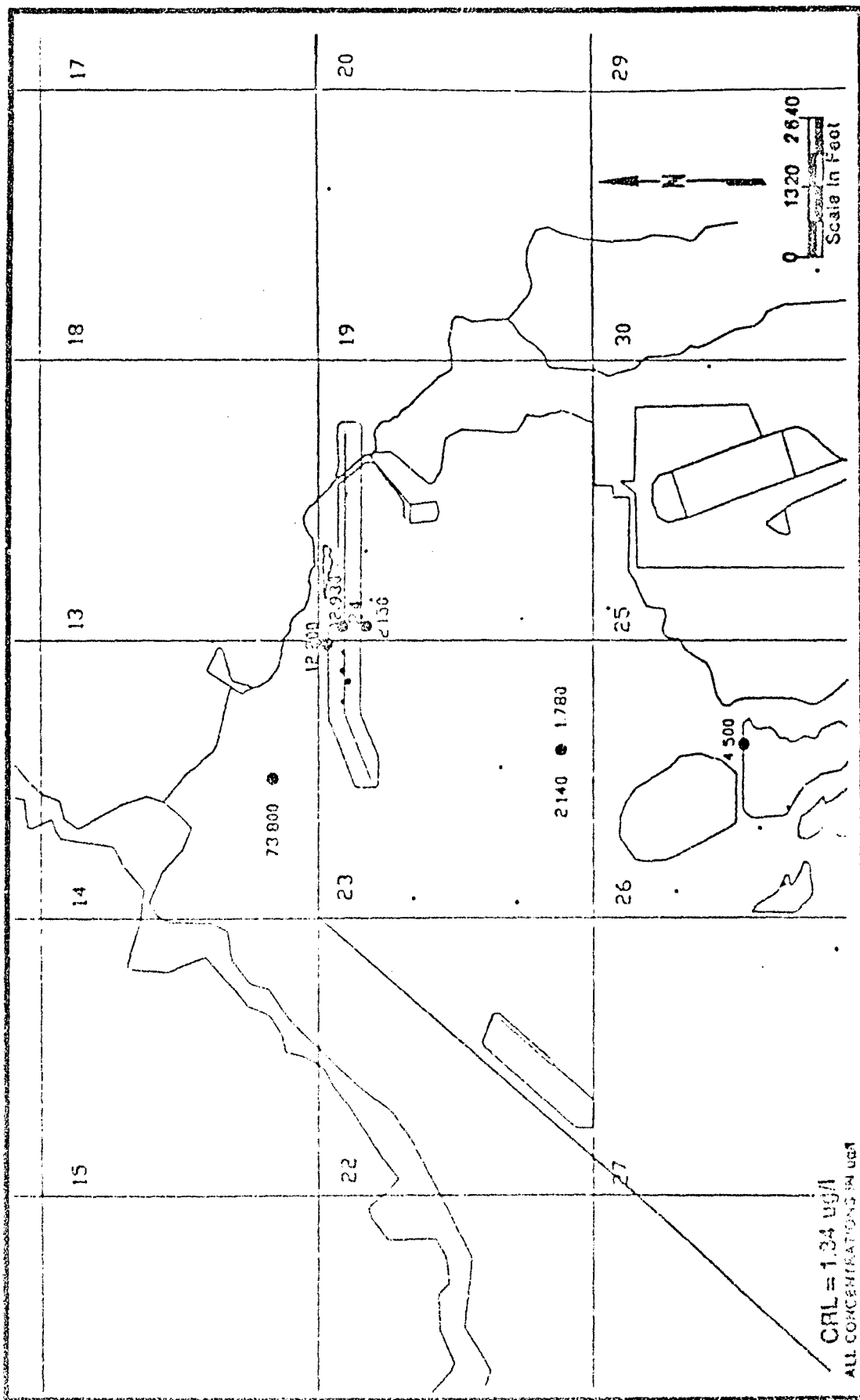
FIGURE B-111C
 FOURTH QUARTER, FY87
 CHLOROACETYLENE DETECTIONS, SAND 2
 DENVER AQUIFER
 SOURCE: ESE, 1983

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Figure B-112A
FIRST QUARTER, FY87
BENZENE DETECTIONS, SAND 2
DENVER AQUIFER
SOURCE: ESE 1803



CRL = 1.24 UG/L
ALL CONCENTRATIONS IN UG/L

Figure B-112B
THIRD QUARTER, FY87
BENZENE DETECTIONS, SAND 2
DENVER AQUIFER

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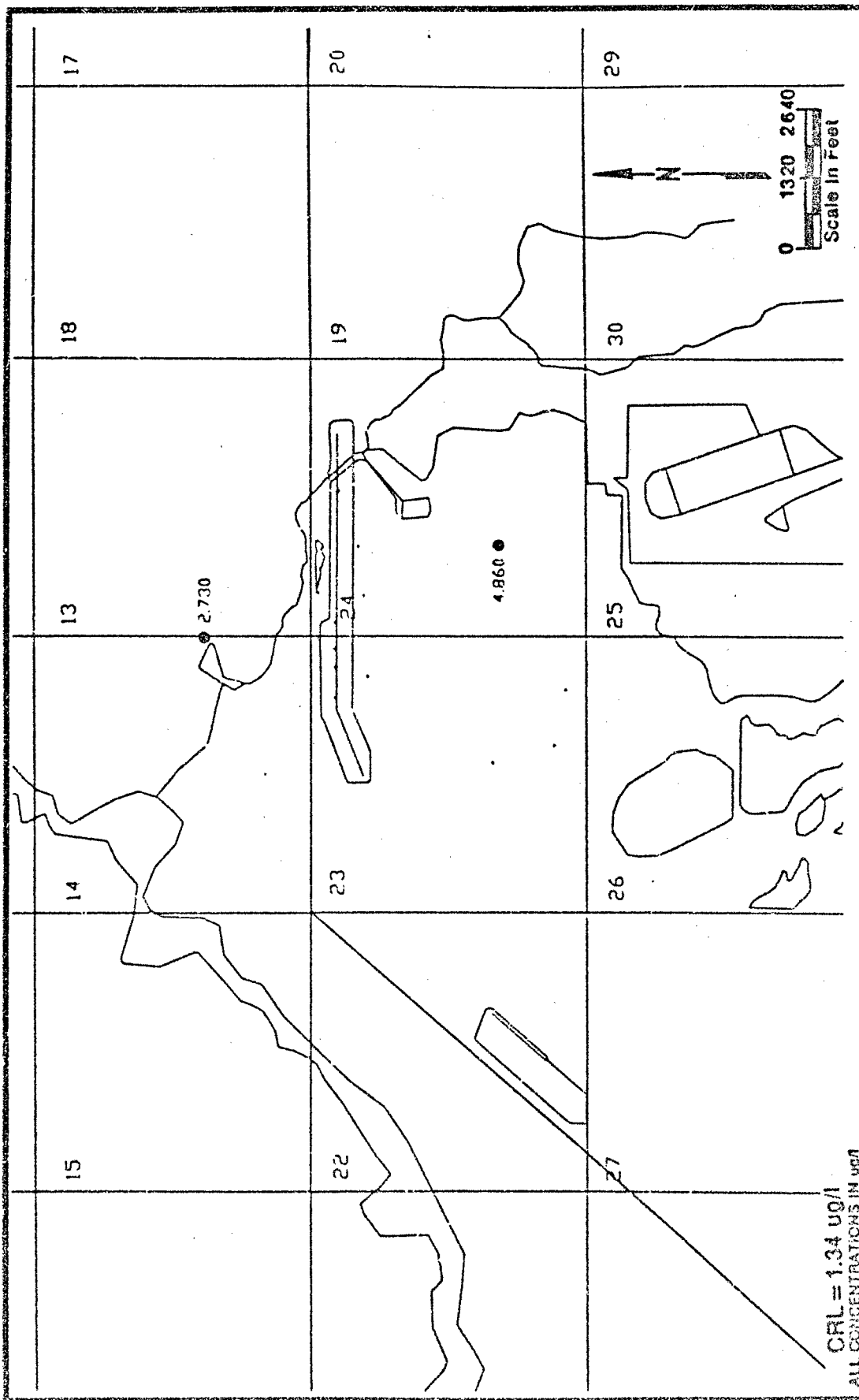


Figure B-112C

FOURTH QUARTER, FY87
BENZENE DETECTIONS, SAND 2
DENVER AQUIFER

SOURCE: EGE 1993

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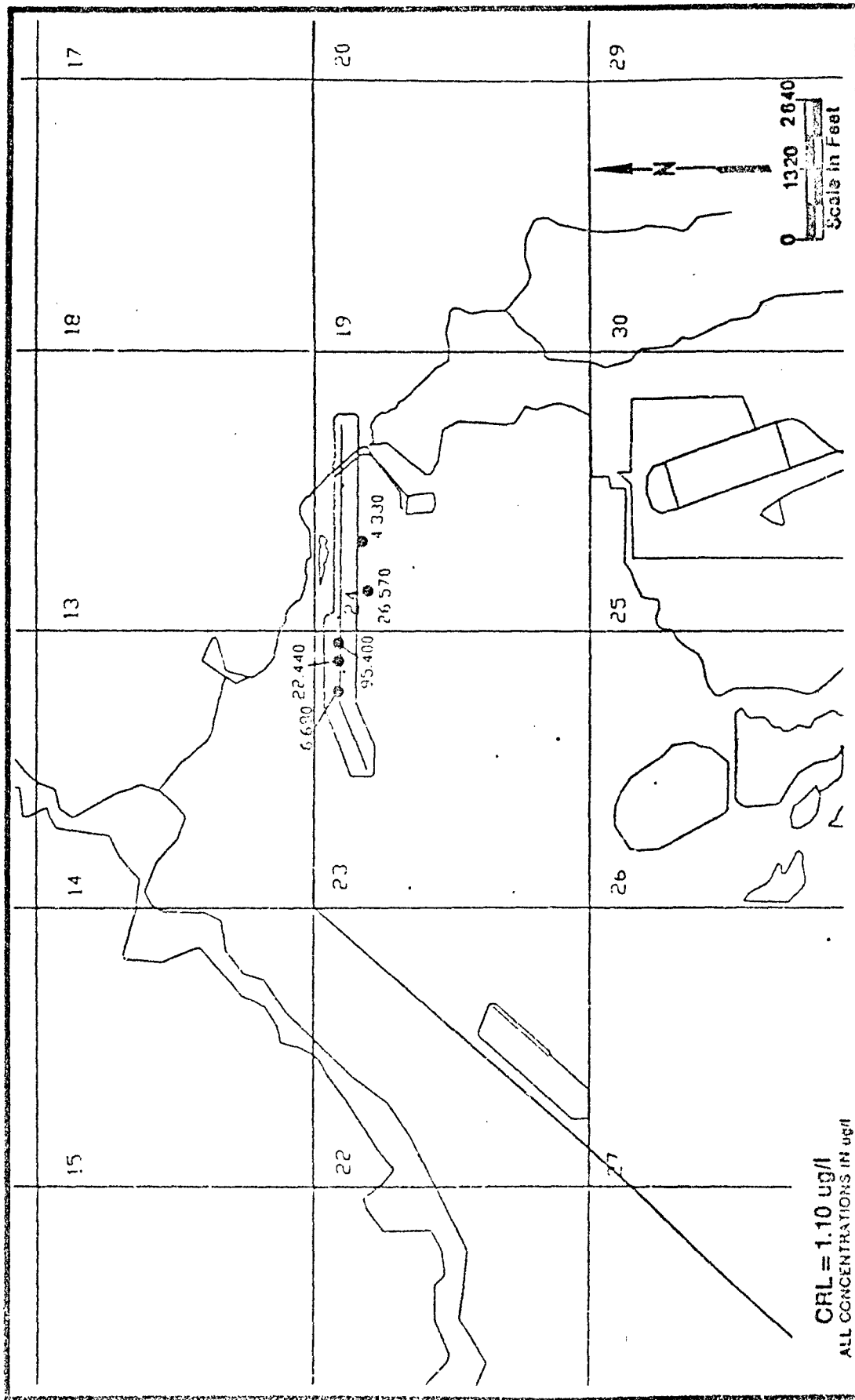


Figure B-113A

FIRST QUARTER, FY87
COMBINED ORGANOSULFURS DETECTIONS, SAND 2
DENVER AQUIFER

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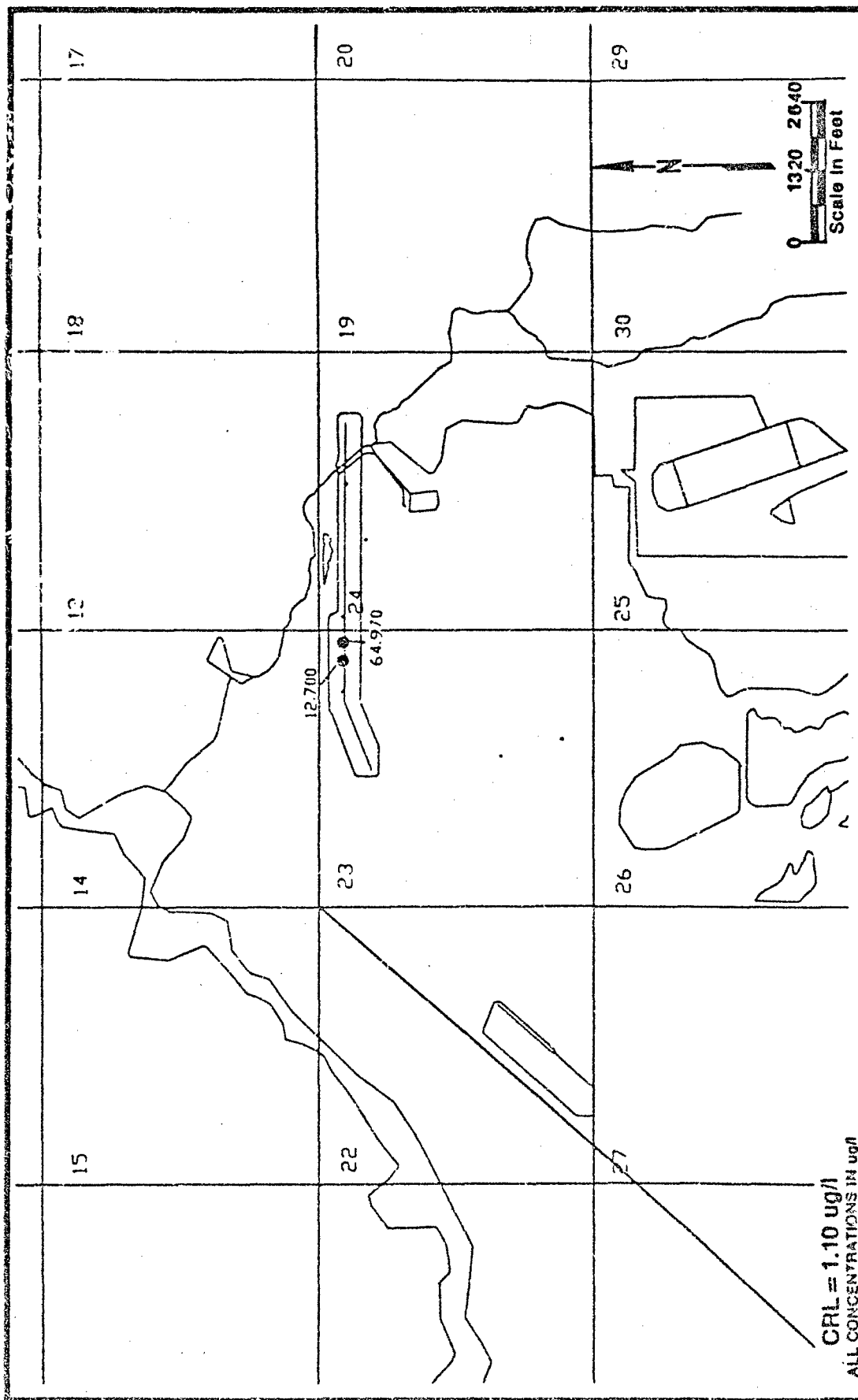
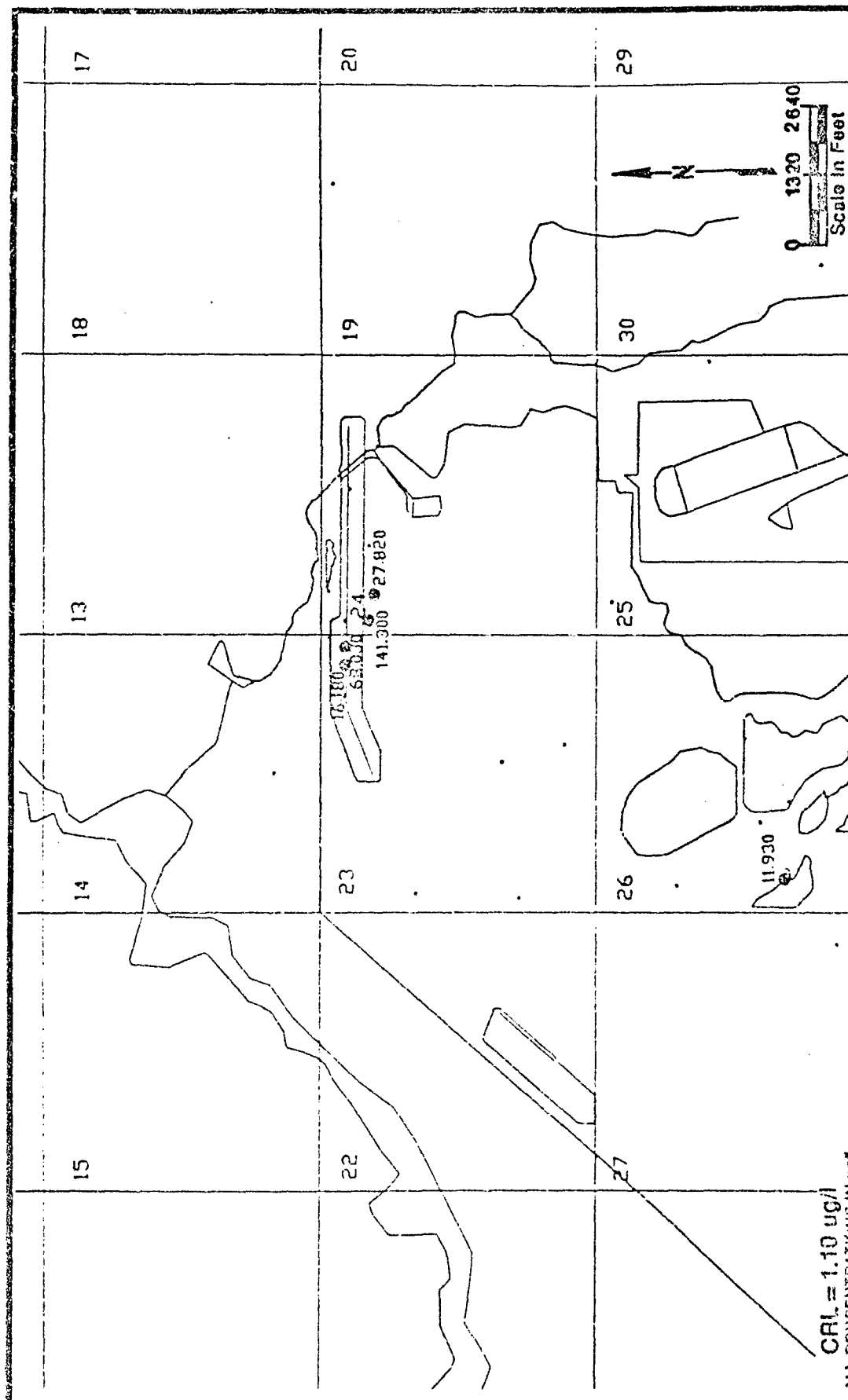


Figure B-1139
SECOND QUARTER, FY87
COMBINED ORGANOSULFURS DETECTIONS, SAND 2
DENVER AQUIFER
SOURCE: ESE 1088

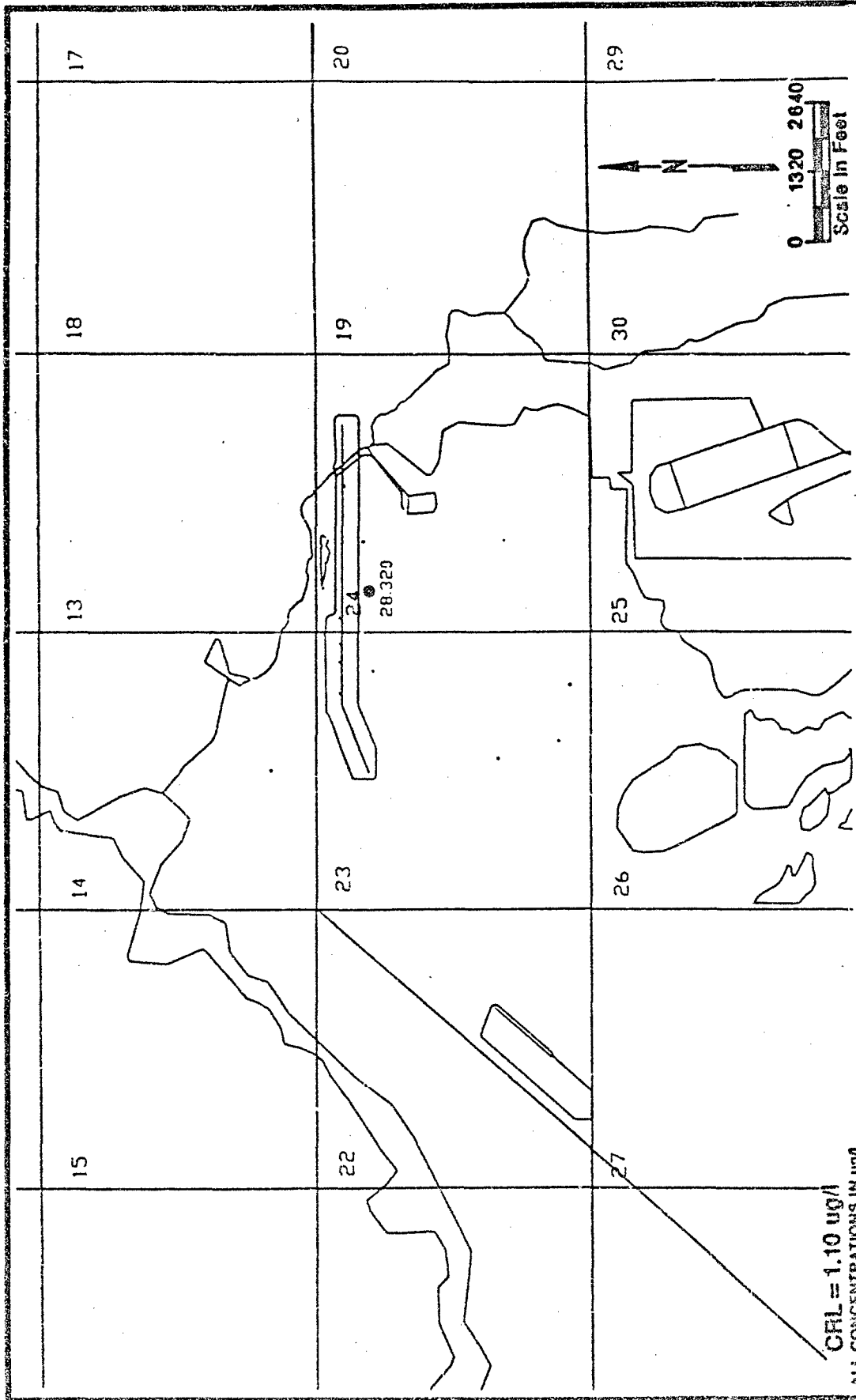
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CRL = 1.10 ug/l
ALL CONCENTRATIONS IN ug/l

Figure B-113C
THIRD QUARTER, FY 87
COMBINED ORGANOSULFERS DETECTIONS, SAND 2
DENVER AQUIFER
SOURCE: ESE, 1988

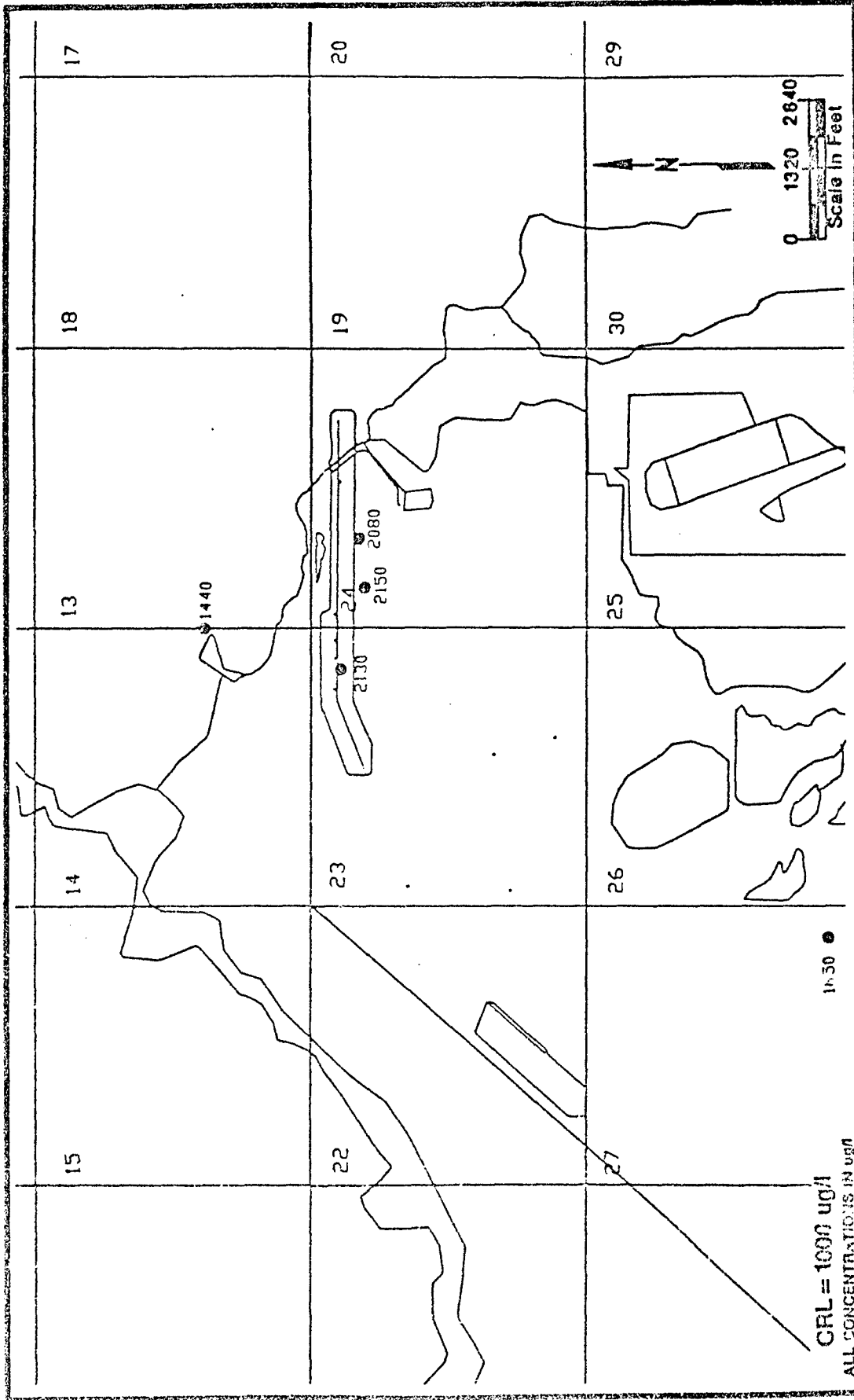
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CRL = 1.10 ug/l
 ALL CONCENTRATIONS IN ug/l

Figure B-113D
 FOURTH QUARTER, FY87
 COMBINED ORGANOSULFERS DETECTIONS, SAND 2
 DENVER AQUIFER

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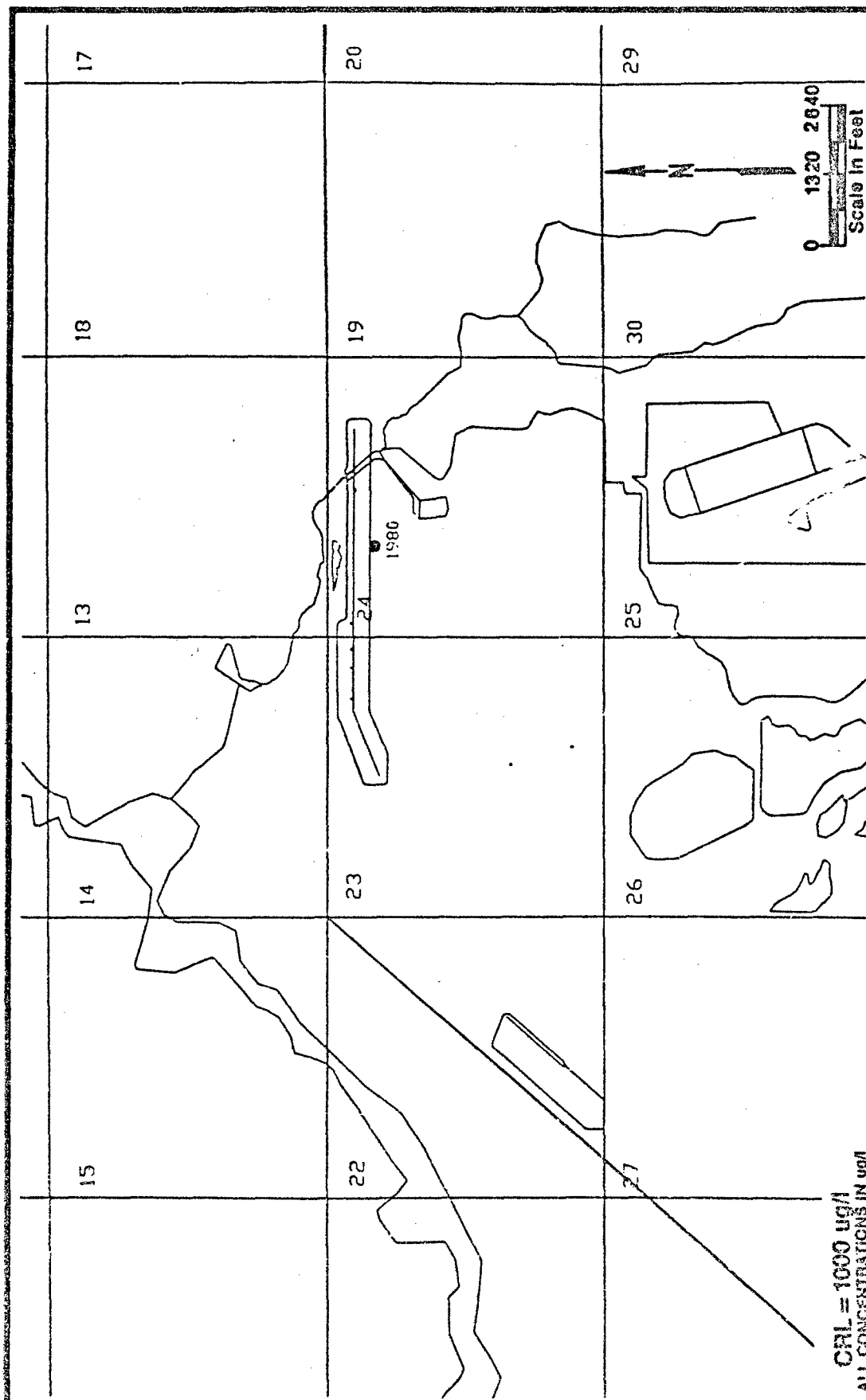
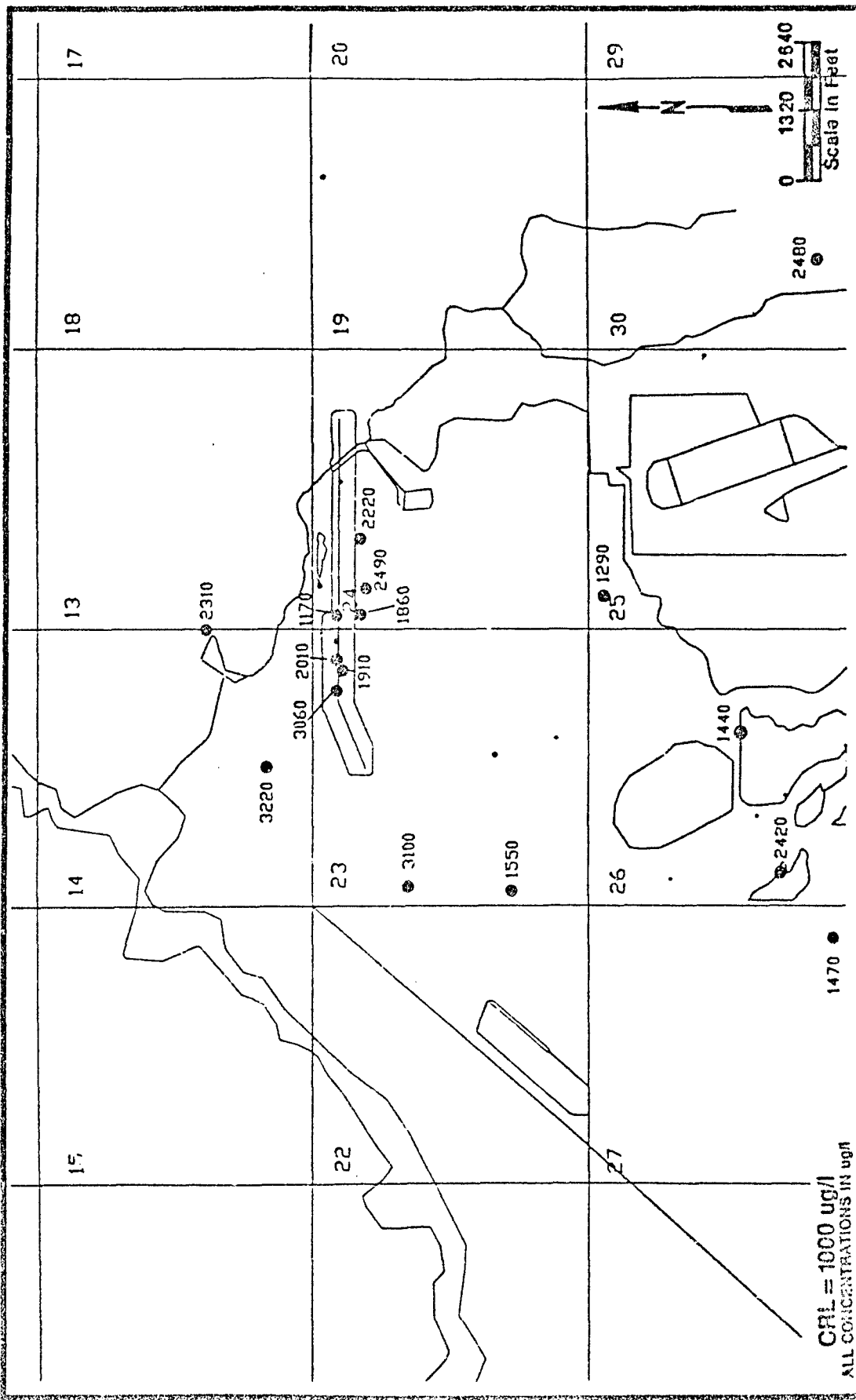
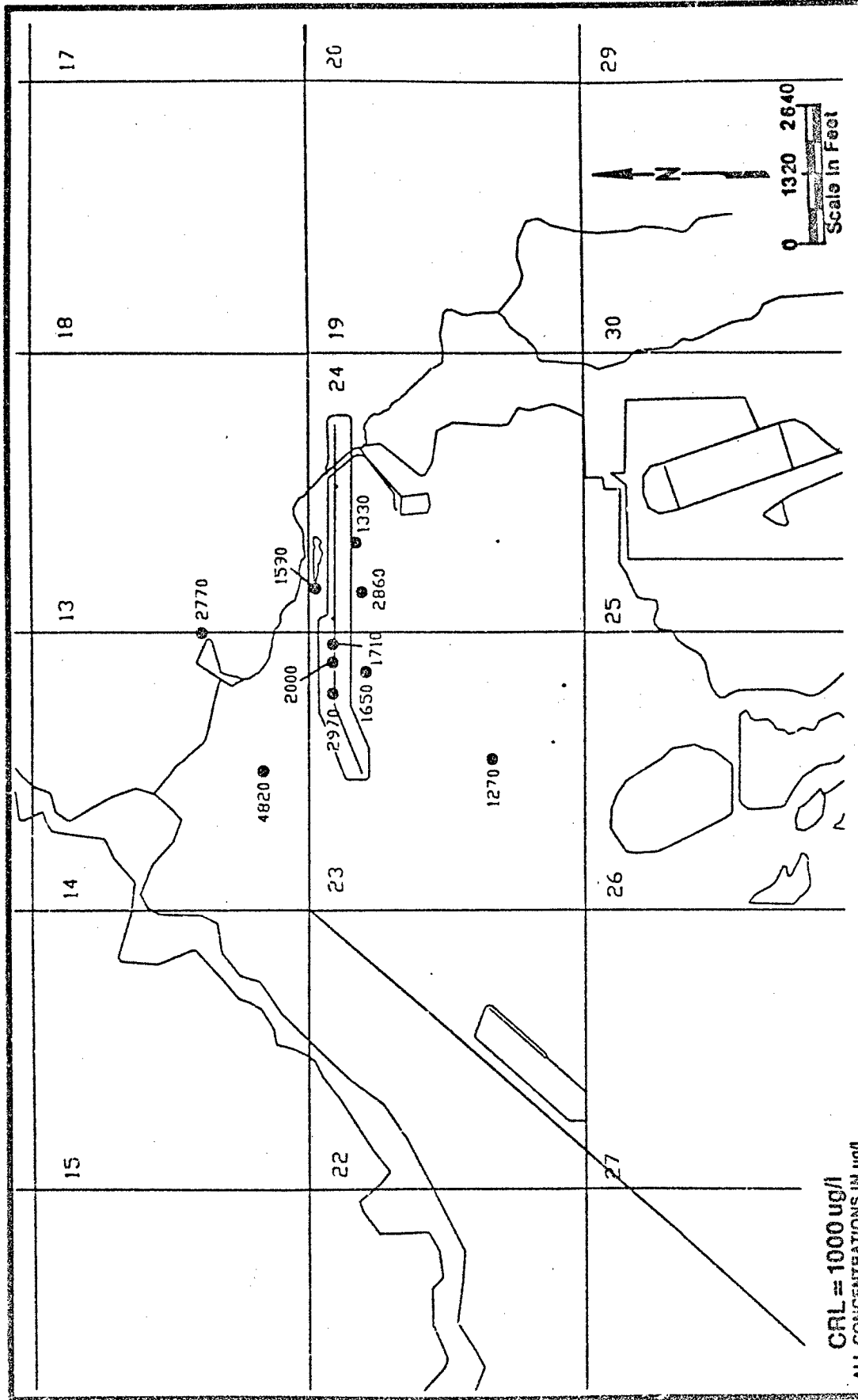


Figure B-114B
SECOND QUARTER, FY87
FLUORIDE DETECTIONS, SAND 2
DENVER AQUIFER
SOURCE: ESE 1083

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Figure B-114D
FOURTH QUARTER, FY87
FLUORIDE DETECTIONS, SAND 2
DENVER AQUIFER
SOURCE: EGE, 1988

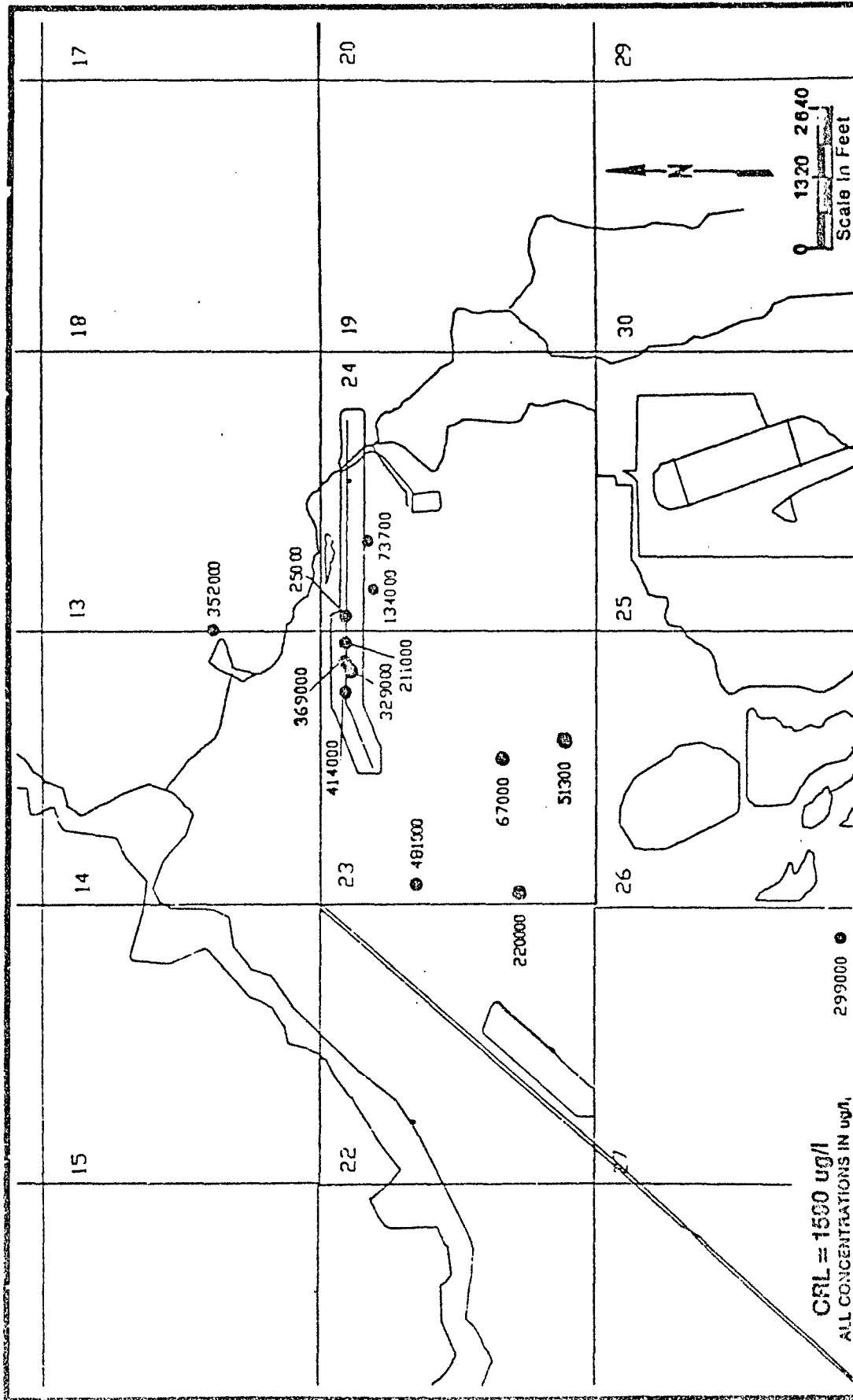
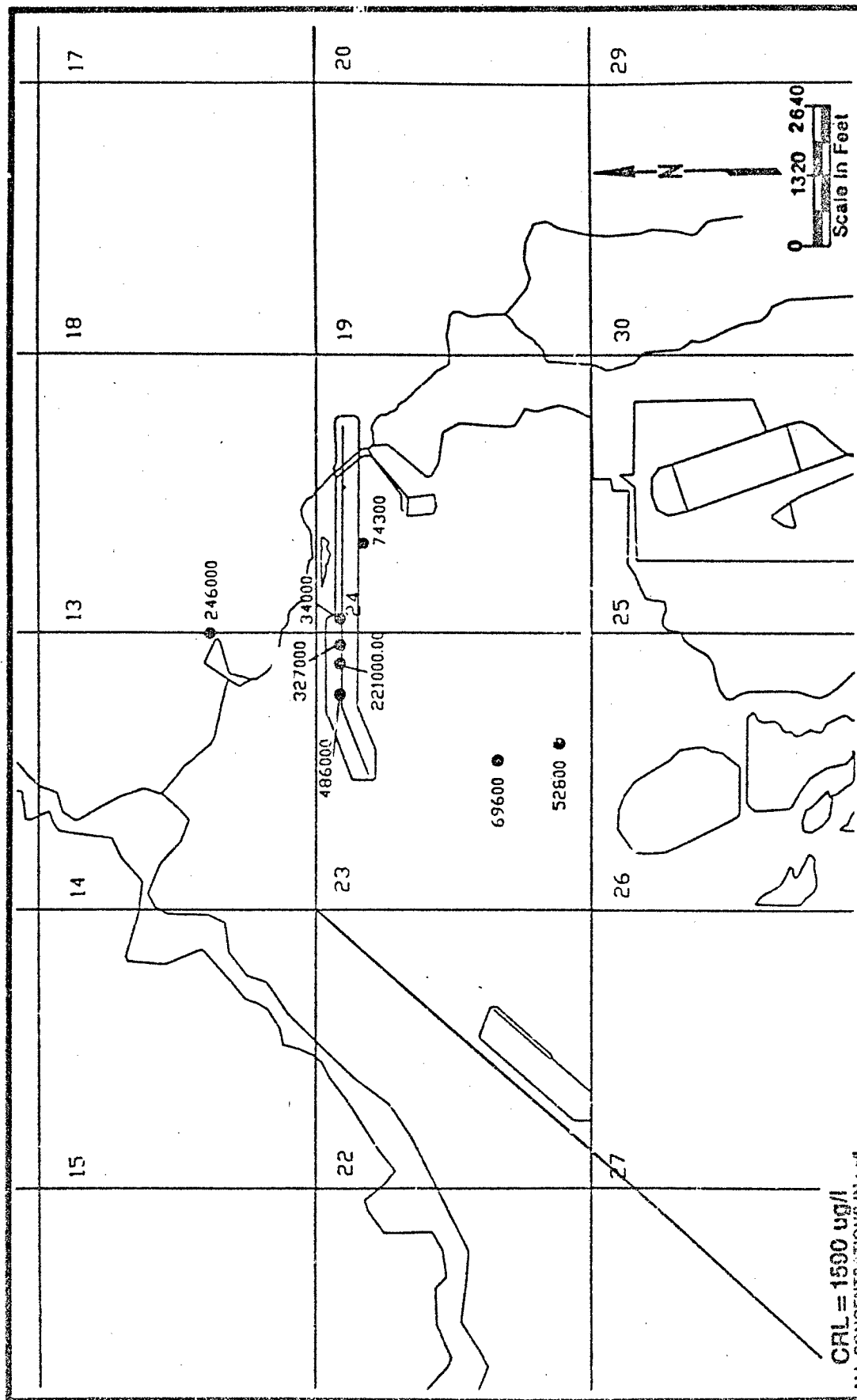


Figure B-115 A
FIRST QUARTER, FY87
CHLORIDE DETECTIONS, SAND 2
DENVER AQUIFER
SOURCE: ESE 1000

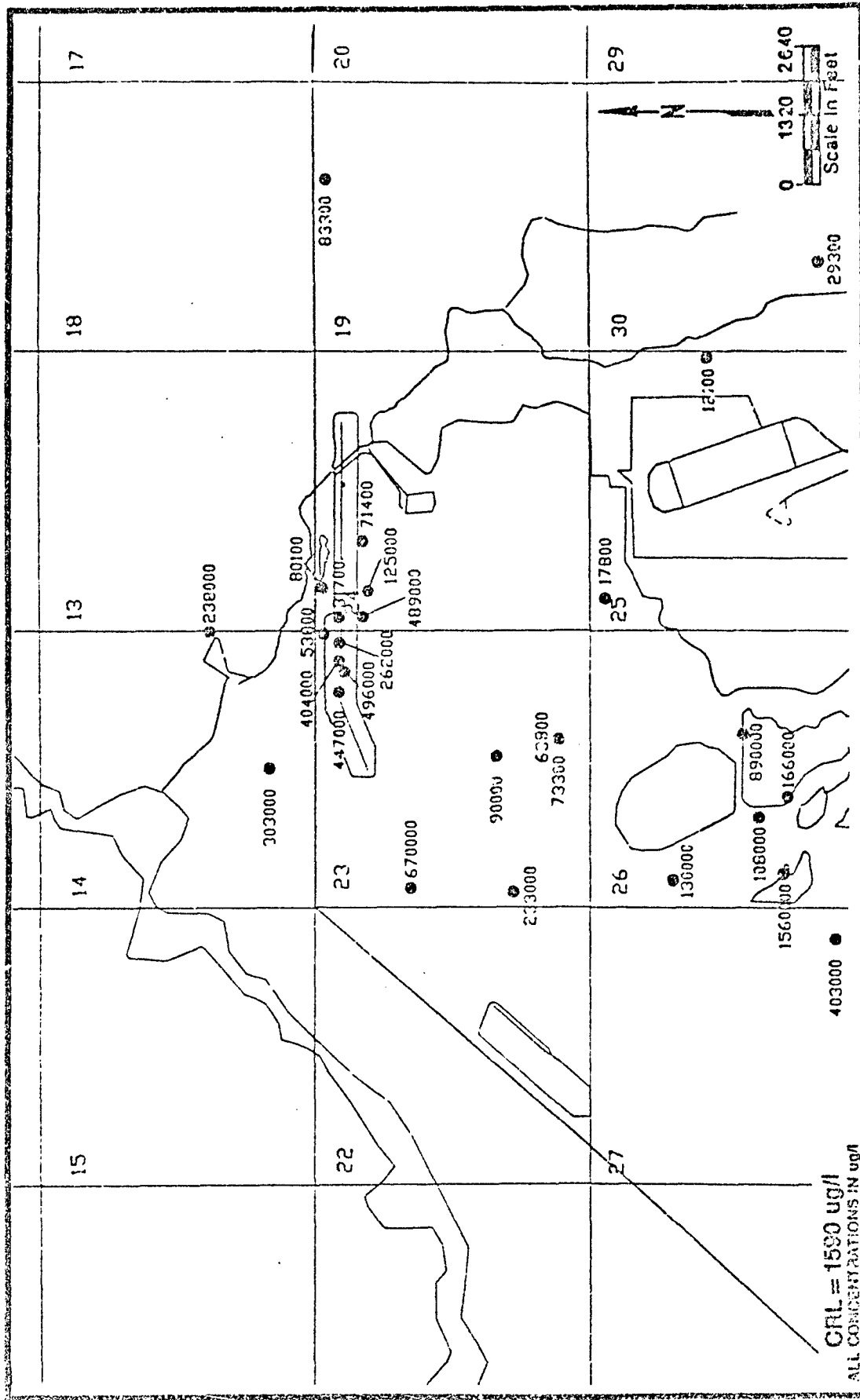
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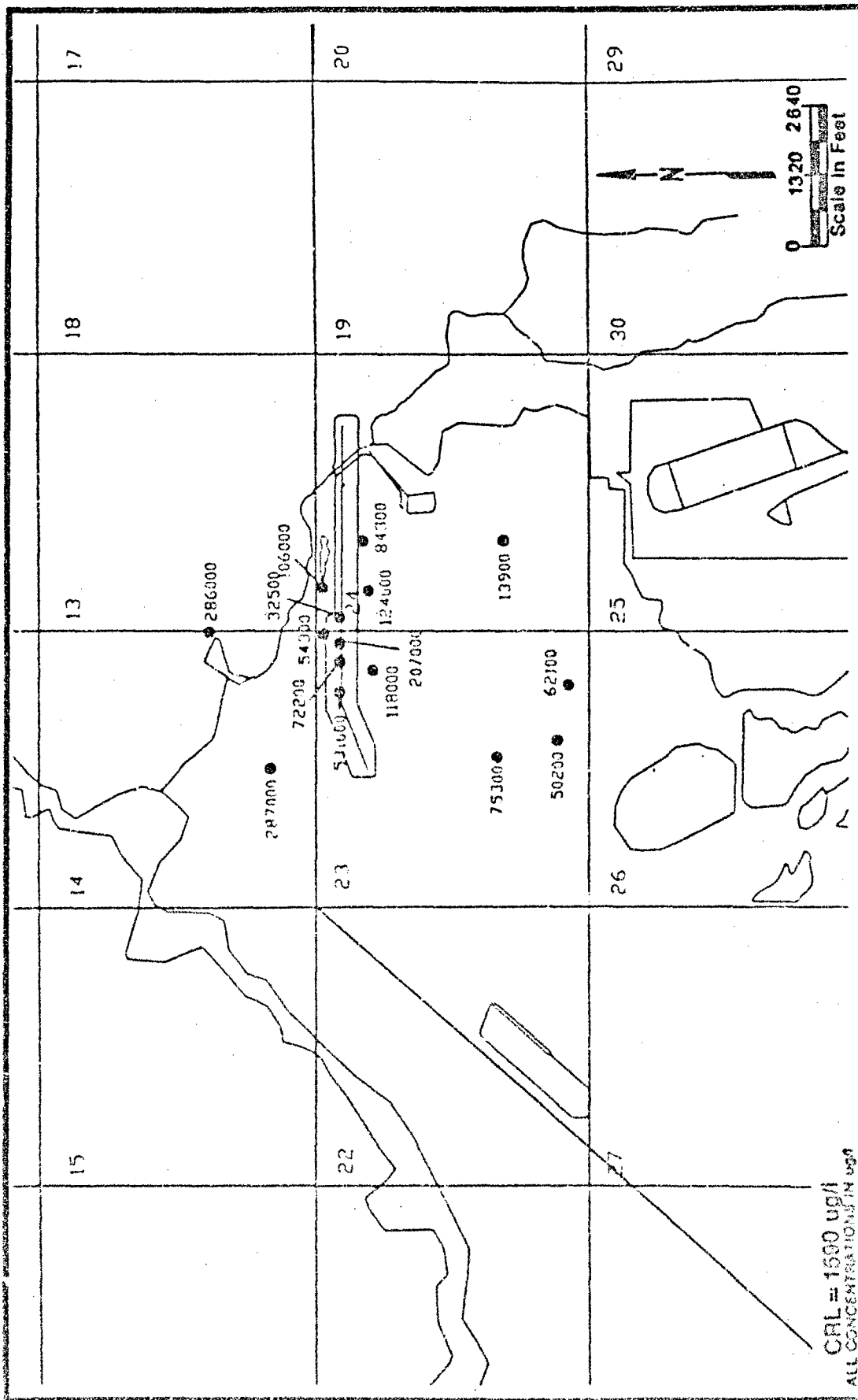
CRL = 1500 ug/l
ALL CONCENTRATIONS IN ug/l

Figure B-115 B
SECOND QUARTER, FY87
CHLORIDE DETECTIONS, SAND 2
DENVER AQUIFER
SOURCE ESE: 1003

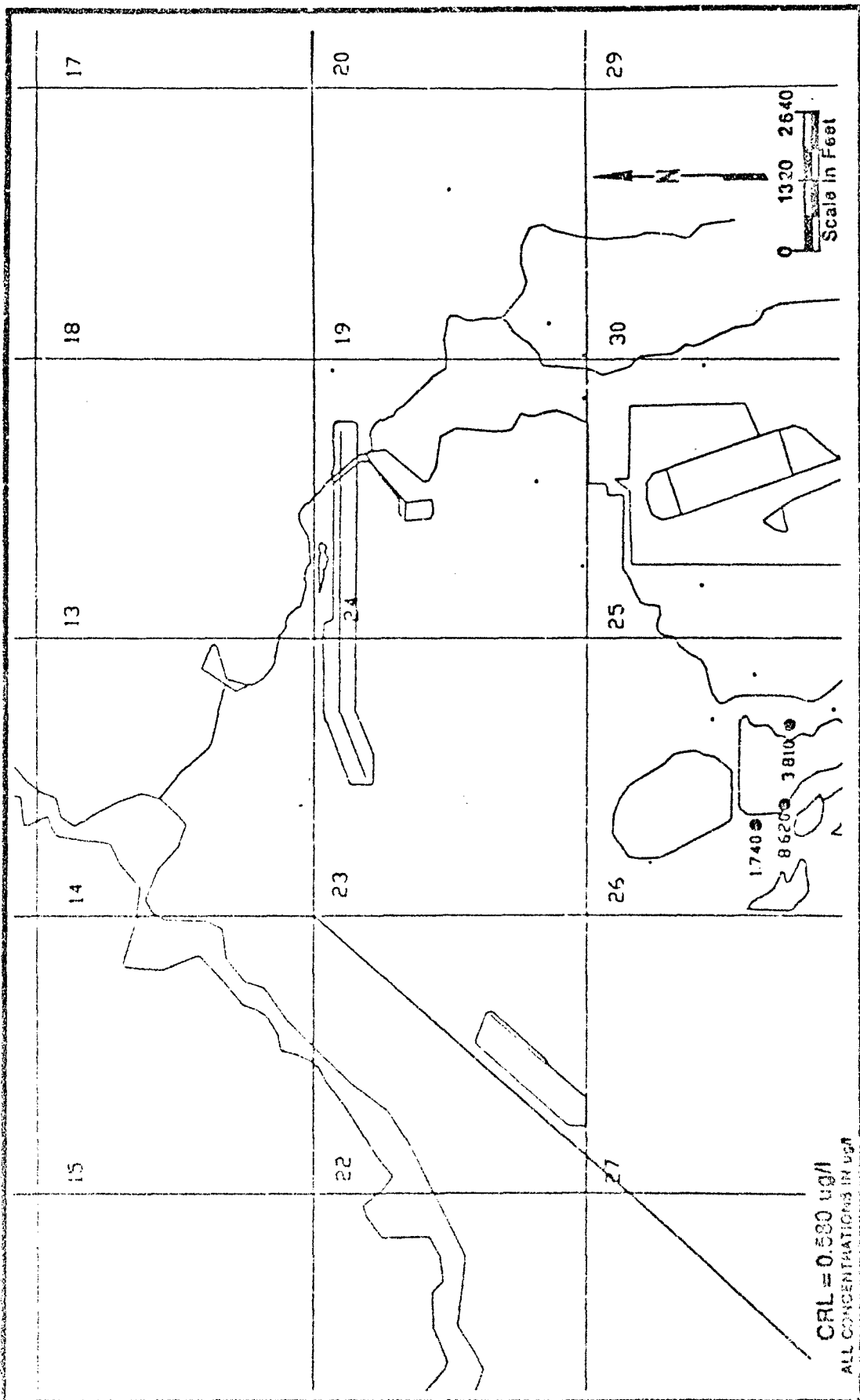
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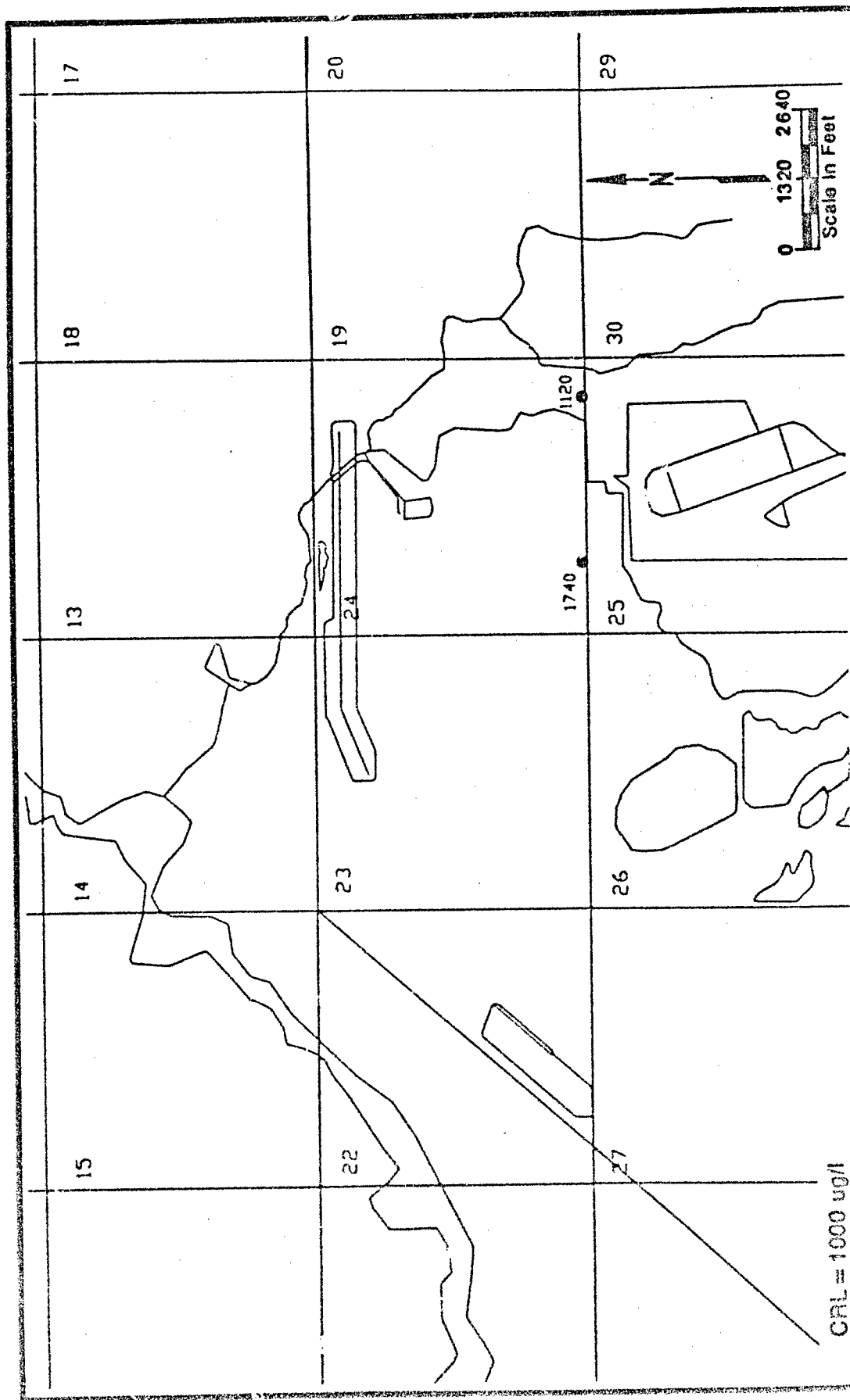


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Figure B-113
 THIRD QUARTER, FY 87
 CHLOROBENZENE DETECTIONS, SAND 1
 DENVER AQUIFER
 SAND 1 DETECTIONS



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Figure B-117A
FIRST QUARTER, FY87
FLUORIDE DETECTIONS, SAND 1
DENVER AQUIFER
SOURCE: ESE 1988

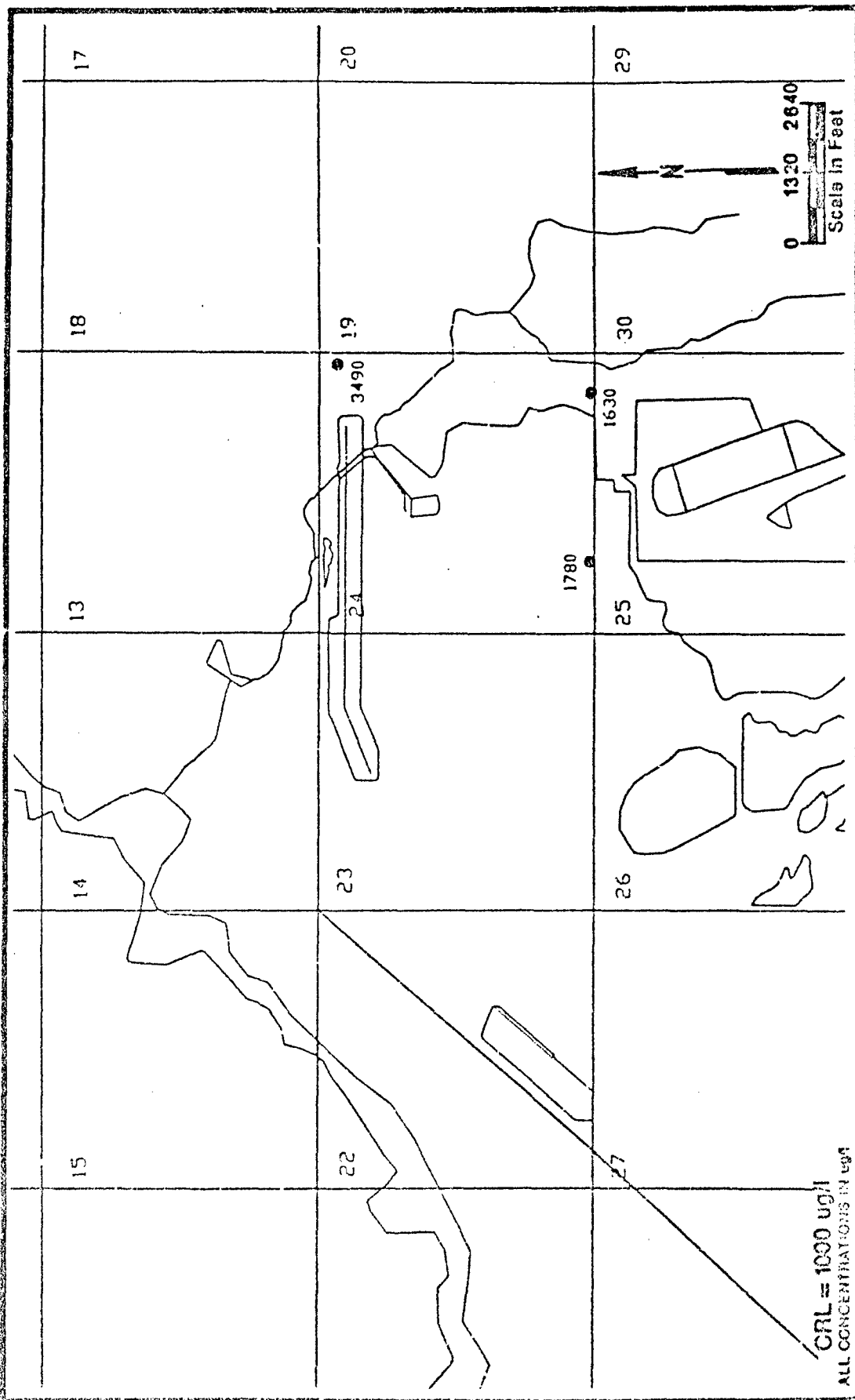
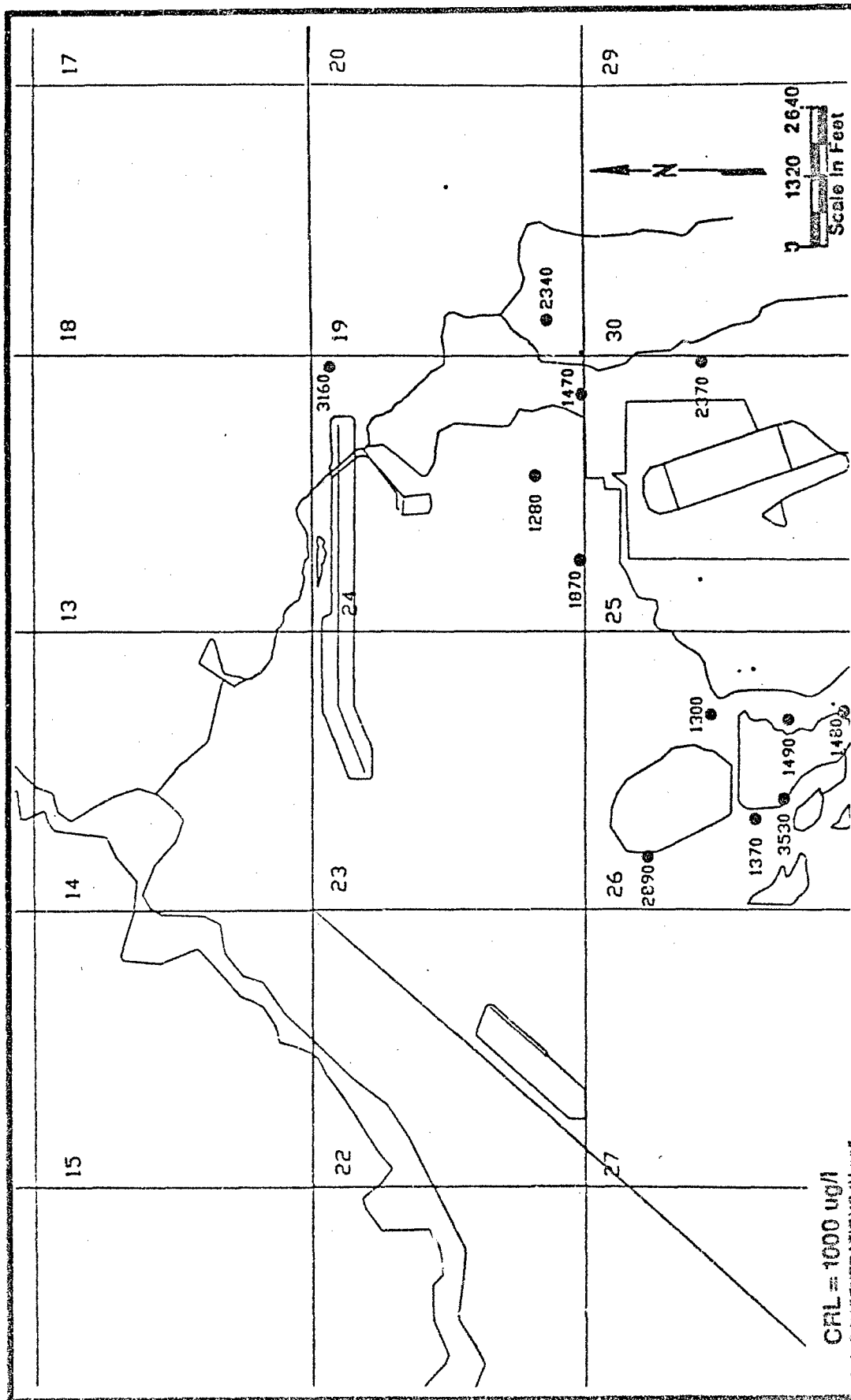


Figure B-1173

SECOND QUARTER, FY87
FLUORIDE DETECTIONS, SAND 1
DENVER AQUIFER

SOURCE: EDC 1003

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Figure B-117C
THIRD QUARTER, FY87
FLUORIDE DETECTIONS, SAND 1
DENVER AQUIFER
SOURCE: FSE 1000

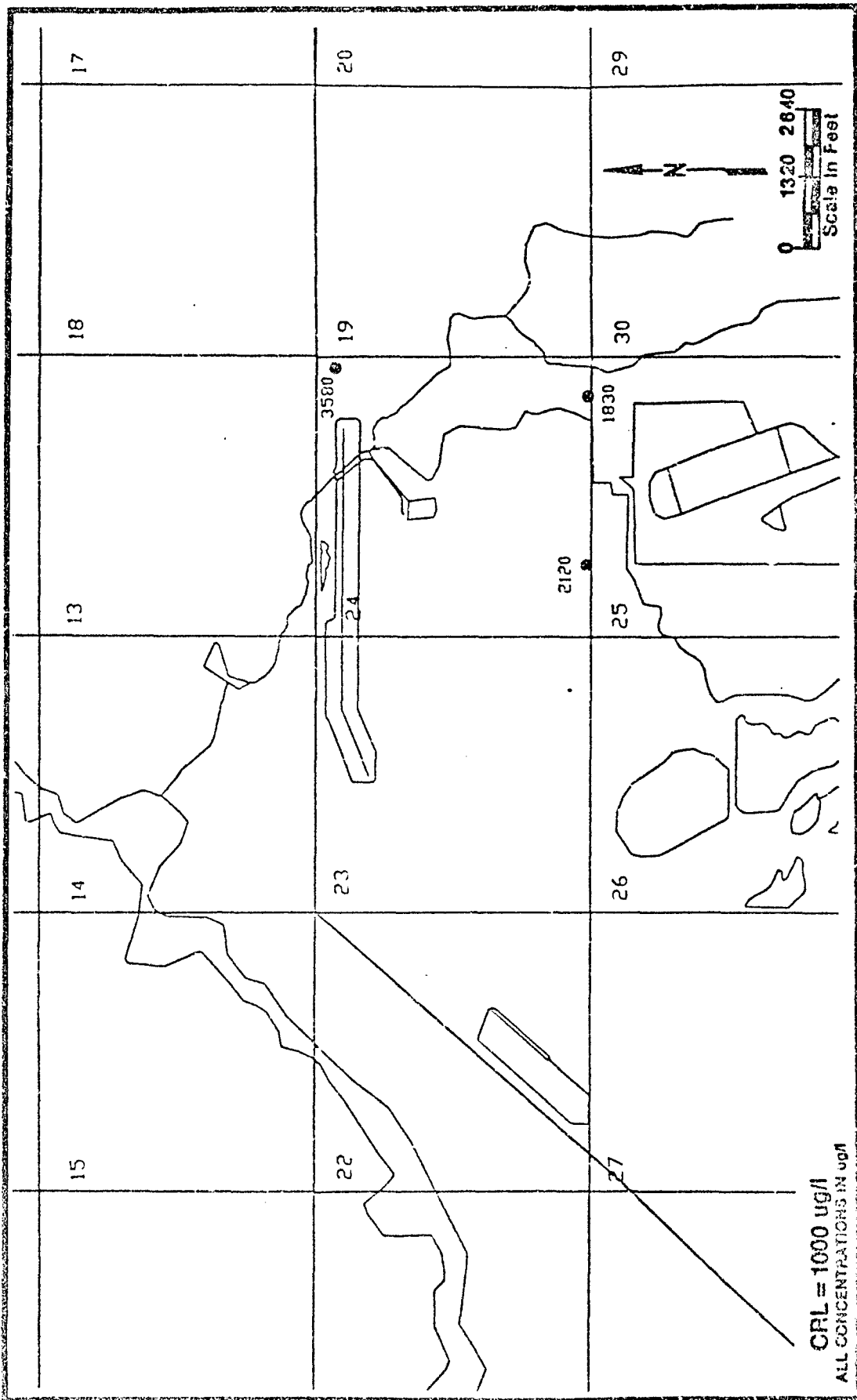


Figure B-117D

FOURTH QUARTER, FY87
FLUORIDE DETECTIONS, SAND 1
DENVER AQUIFER

SOURCE: ESE 1001

Prepared for:

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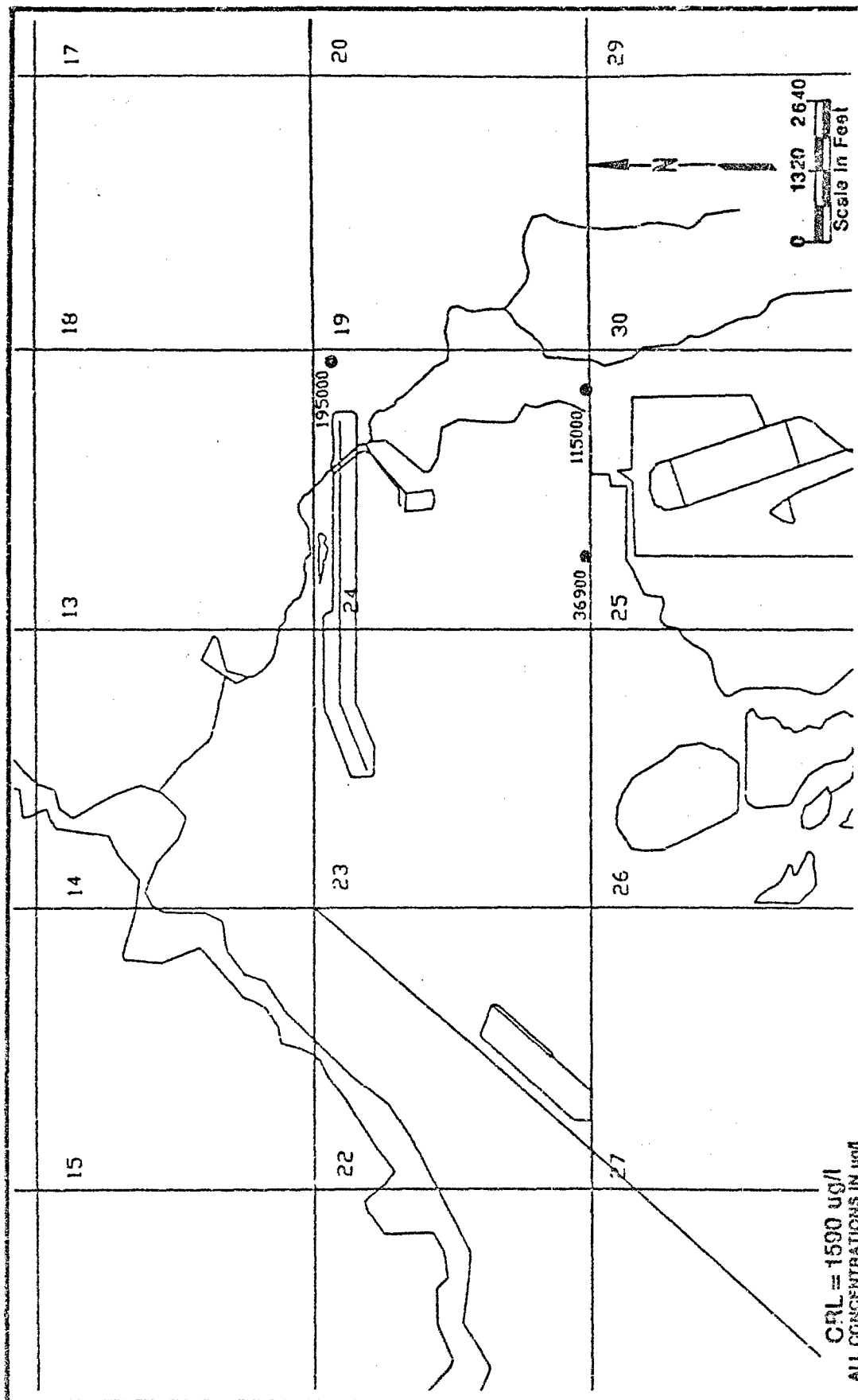
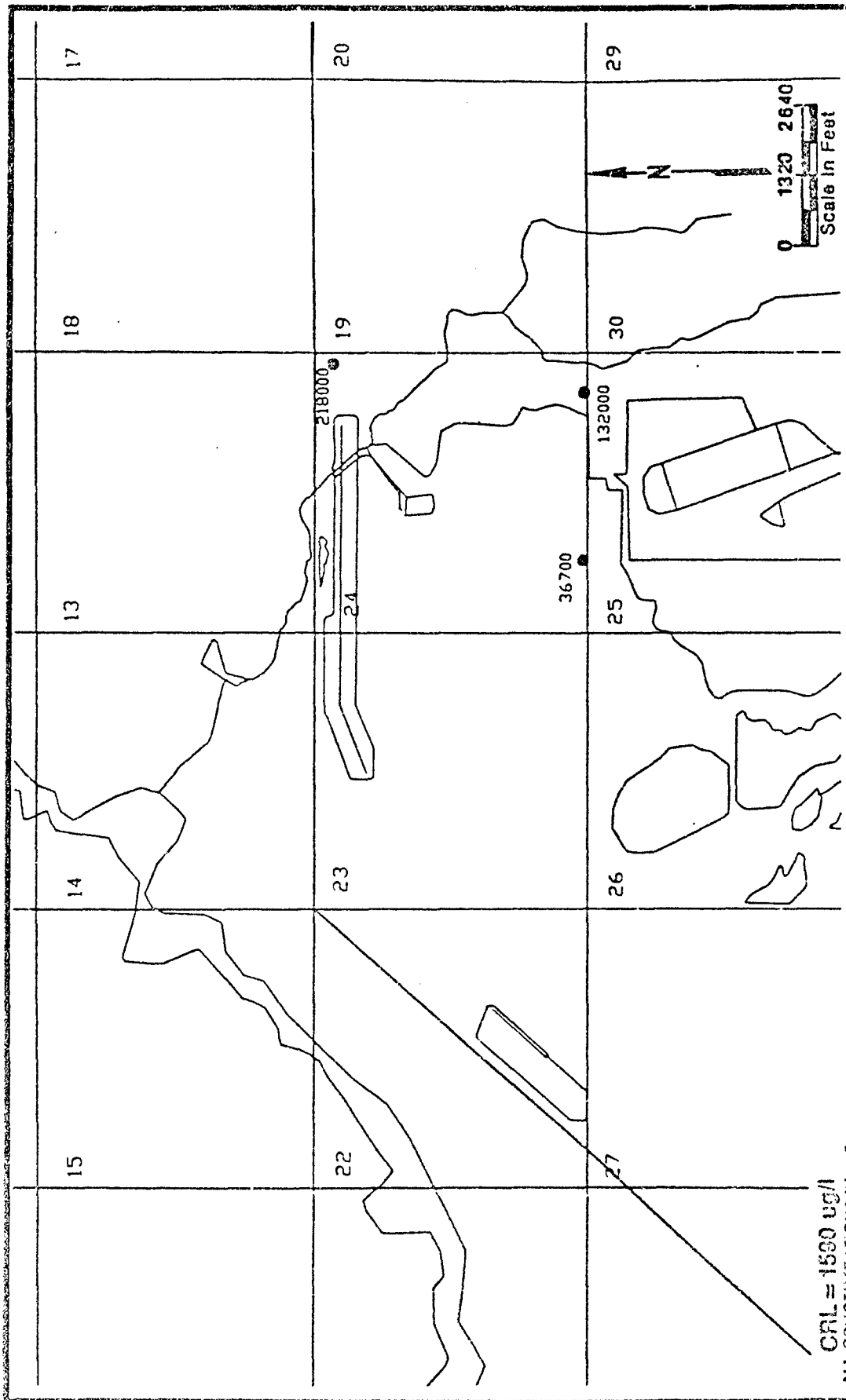


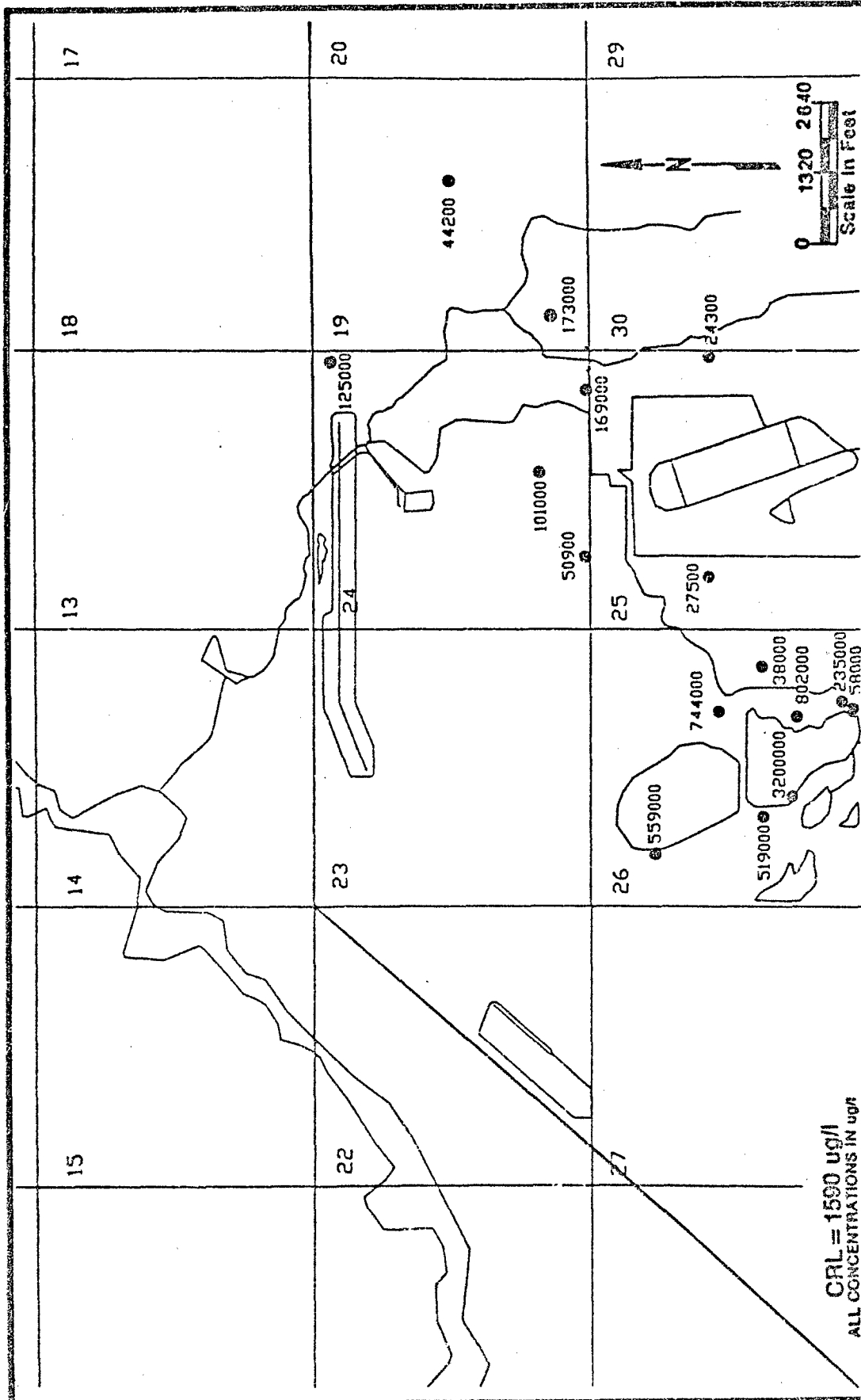
Figure 2-118A
 FIRST QUARTER, FY 87
 CHLORIDE DETECTIONS, SAND 1
 DENVER AQUIFER
 SOURCE: ESE 1084

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 Aberdeen Proving Ground, Maryland

Figure B-116D
 SECOND QUARTER, FY87
 CHLORIDE DETECTIONS, SAND 1
 DENVER AQUIFER
 SOURCE: ESE 1503



CRL = 1590 ug/l
ALL CONCENTRATIONS IN ug/l

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Aberdeen Proving Ground, Maryland

Figure B-110C
THIRD QUARTER, FY87
CHLORIDE DETECTIONS, SAND 1
DENVER AQUIFER
SOURCE: ESE 1988

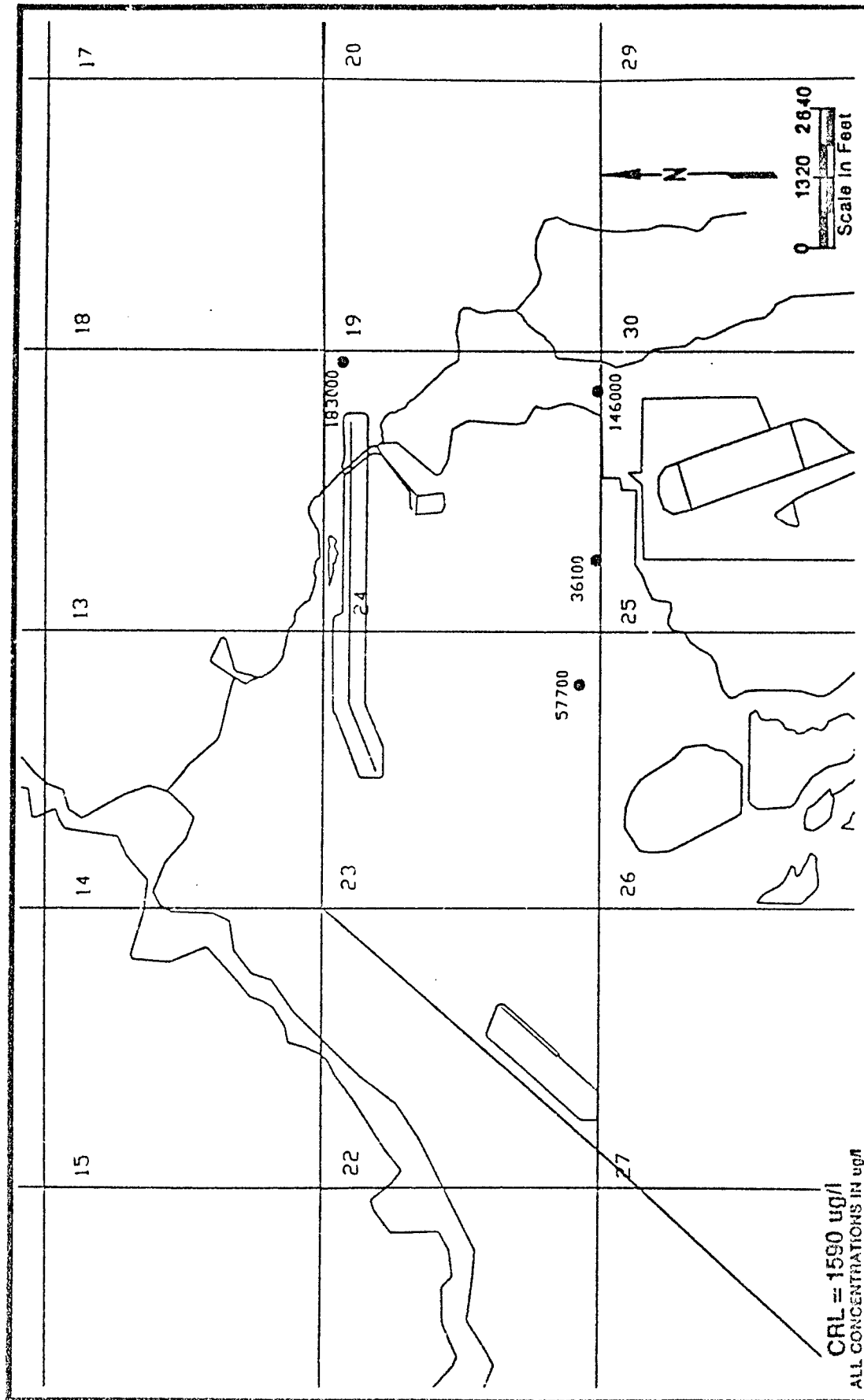


Figure D-118D
FOURTH QUARTER, FY87
CHLORIDE DETECTIONS, SAND 1
DENVER AQUIFER
 SOURCE: ESE 1028

Prepared for:
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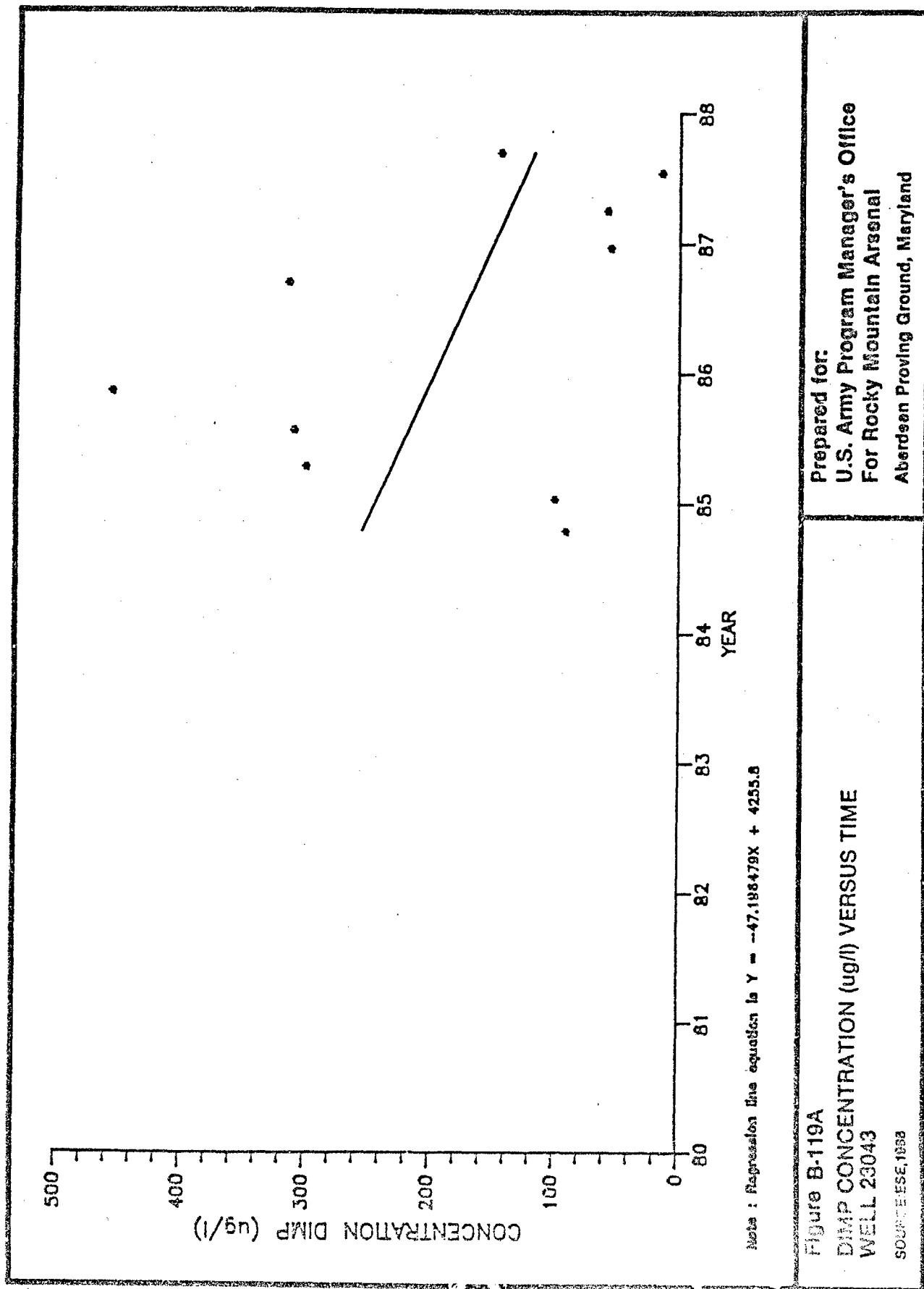
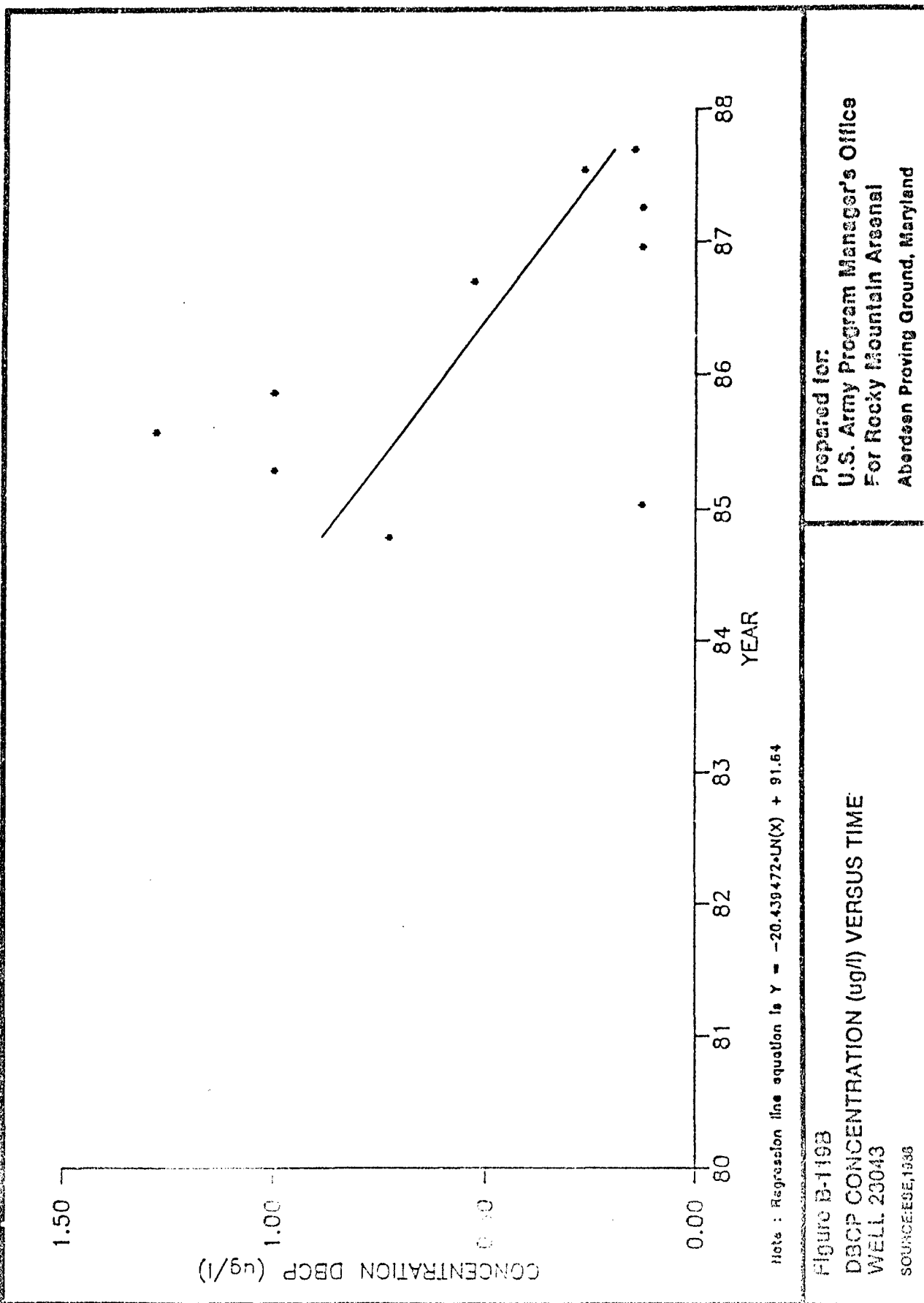


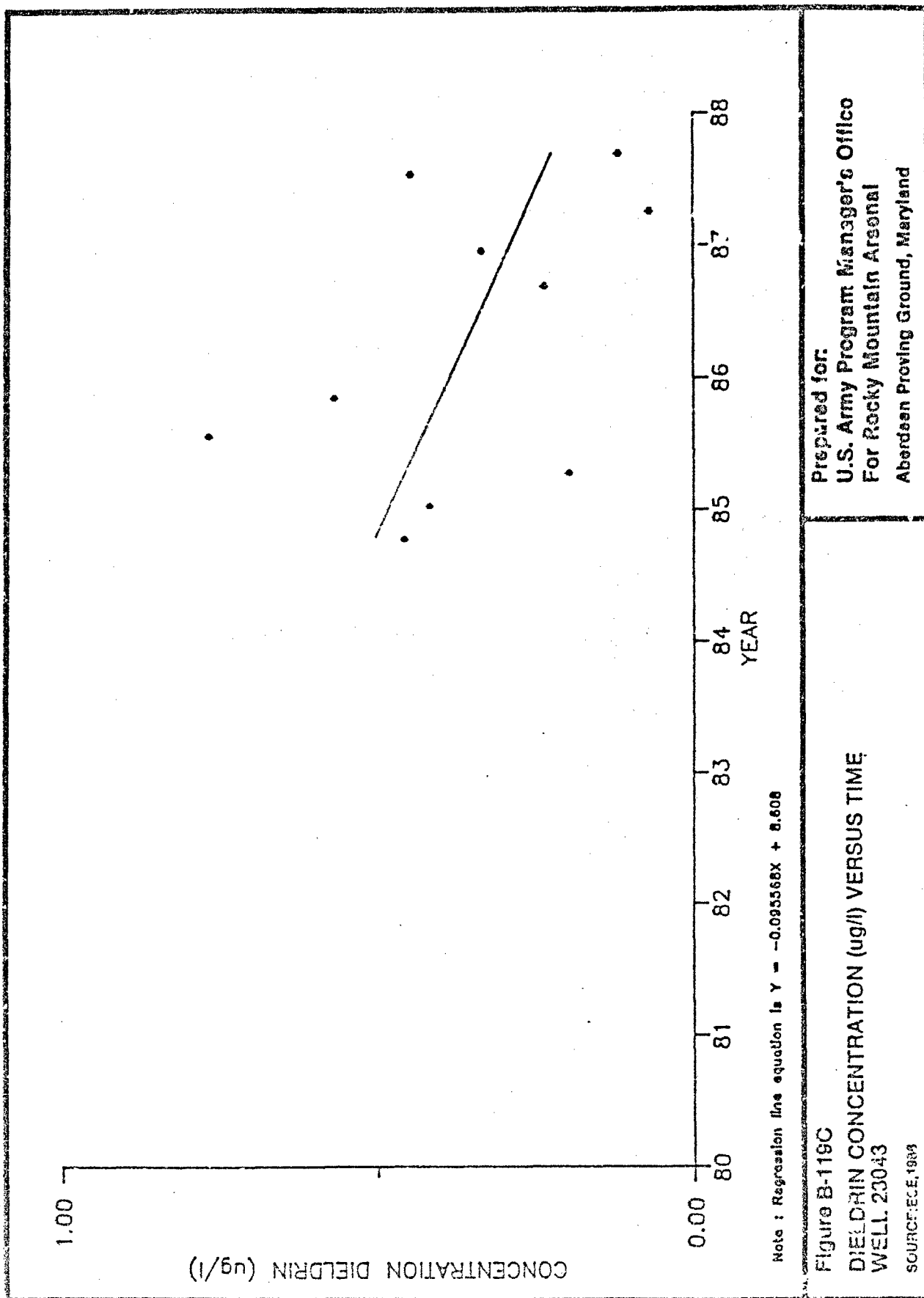
Figure B-119A

DIMP CONCENTRATION (ug/l) VERSUS TIME
WELL 23043

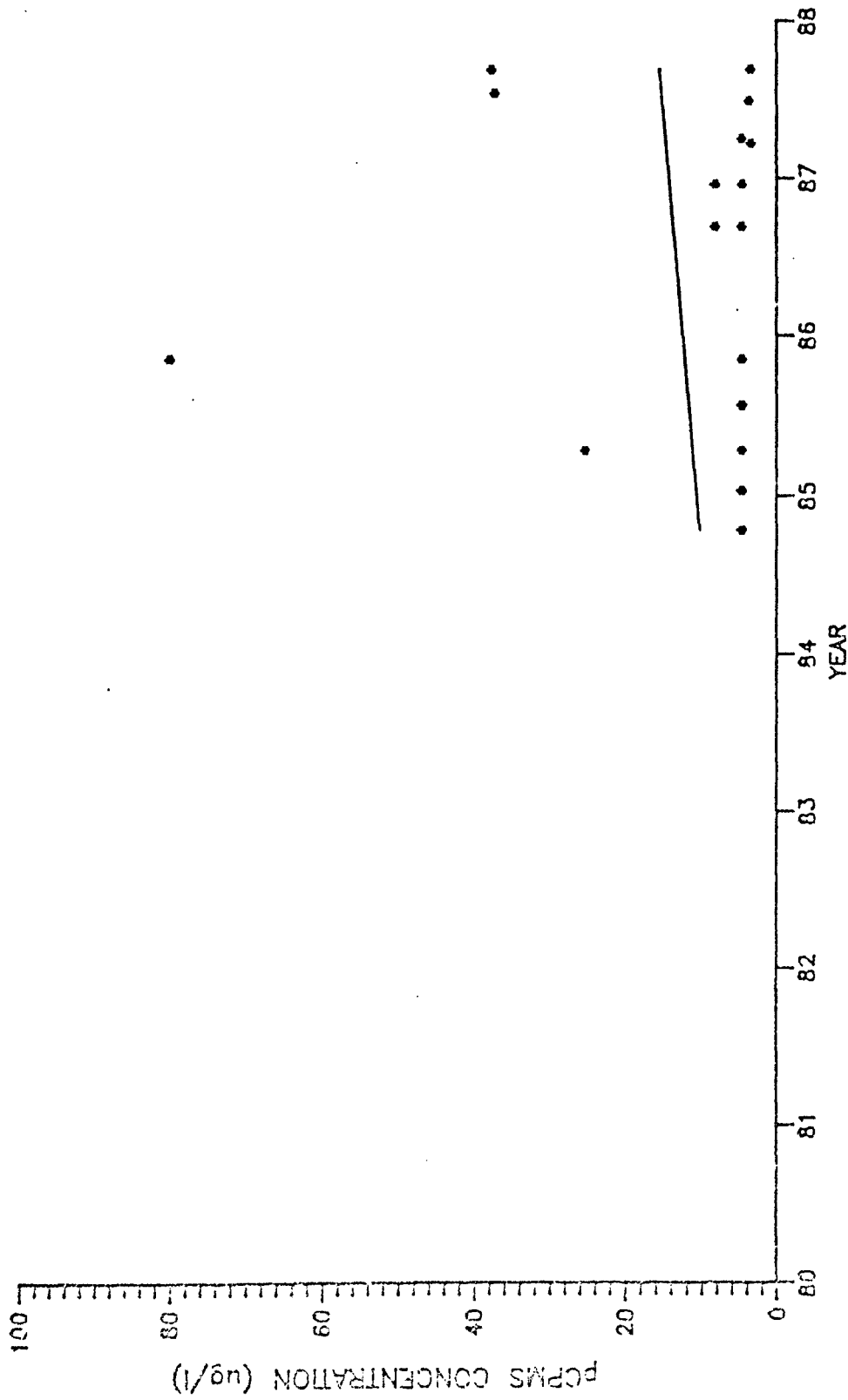
SOURCE: ESE, 1988

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Aberdeen Proving Ground, Maryland



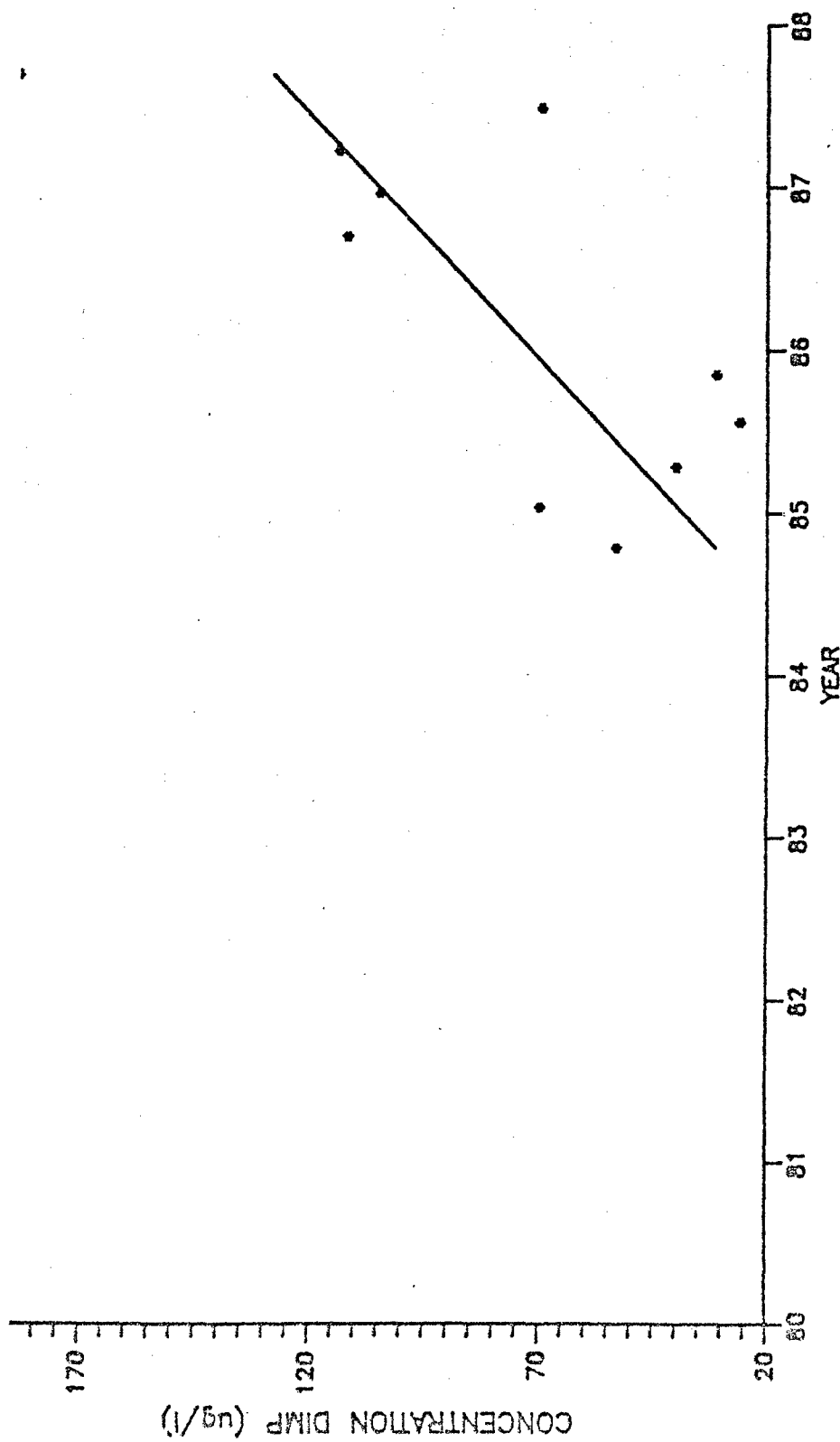


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Figure B-119D
 COMBINED ORGANOSULFURS CONCENTRATION (ug/l) VERSUS TIME
 WELL 23043
 SOURCE: ESE, 1038



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Figure B-120
 DIMP CONCENTRATION (ug/l) VERSUS TIME
 WELL 23047

SOURCE: ESE, 1583

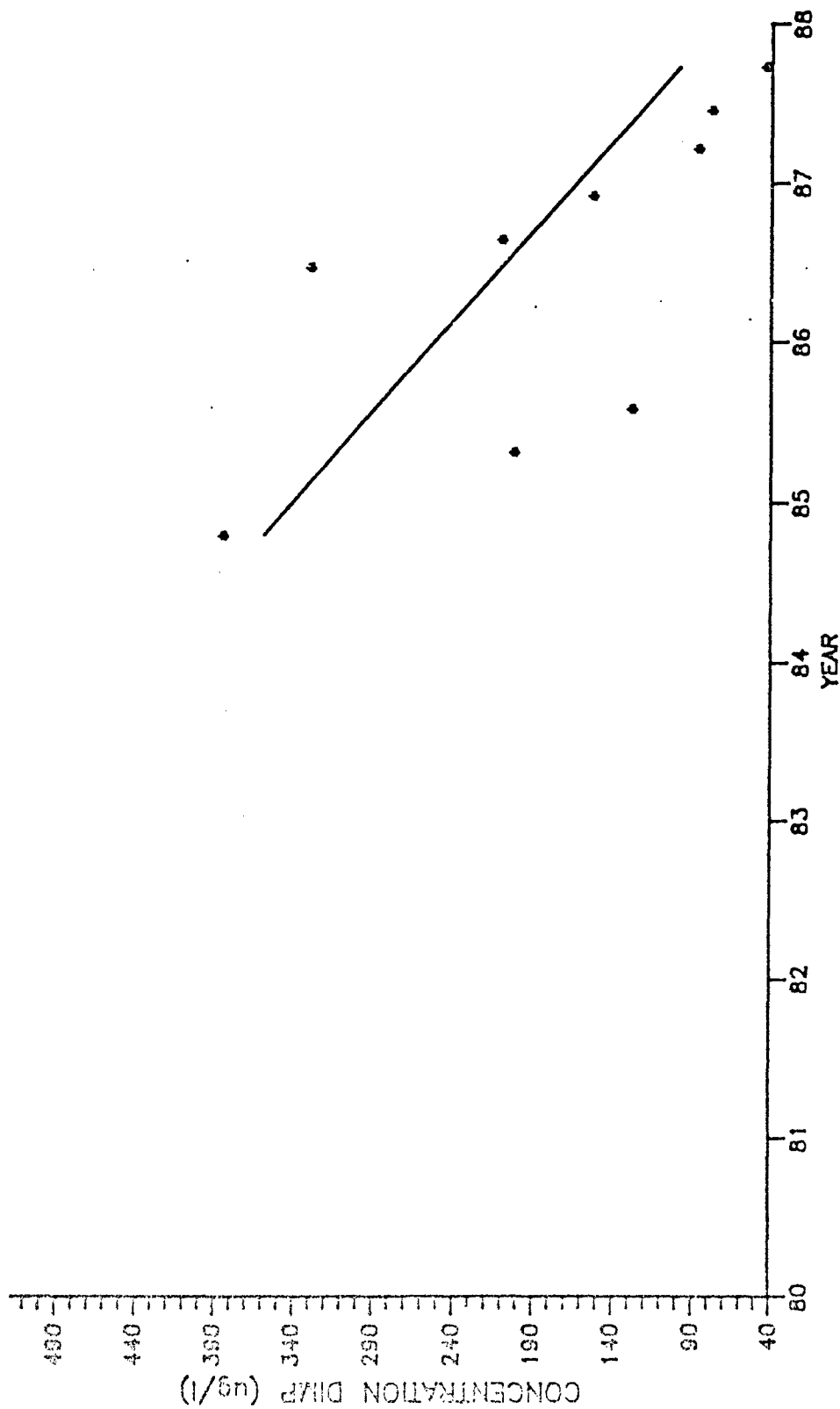


Figure B-121A

DIMP CONCENTRATION (ug/l) VERSUS TIME
WELL 37308

SOURCE: ESE, 1988

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CONCENTRATION DBCP (ug/l)

0 80 81 82 83 84 85 86 87 88
YEAR

Note : Regression line equation is $Y = -0.244905X + 21.5$

Figure B-121B

DBCP CONCENTRATION (ug/l) VERSUS TIME
WELL 37308

SOURCE: ESE, 1988

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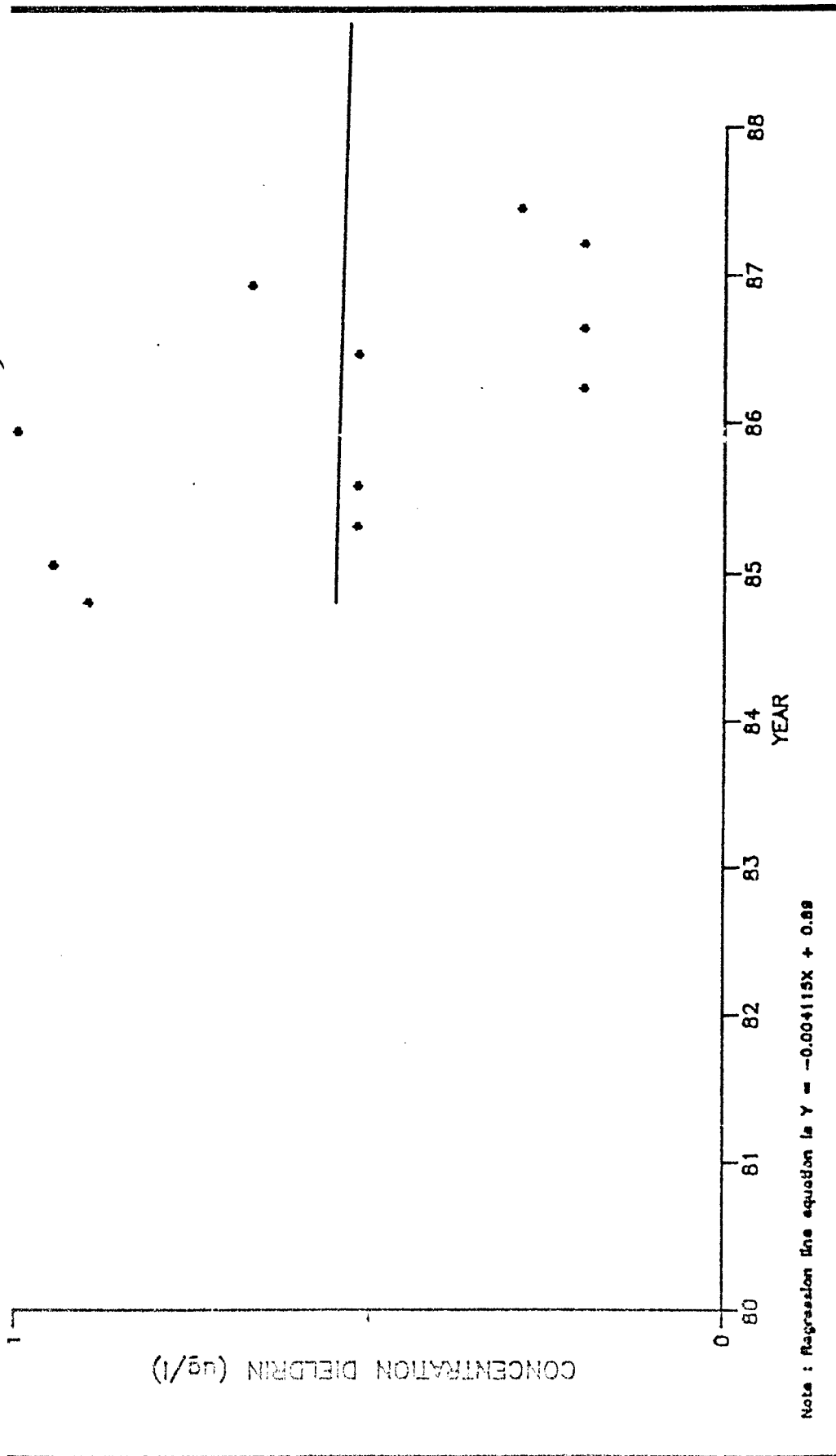


Figure B-121C
 DIELDRIN CONCENTRATION (ug/l) VERSUS TIME
 WELL 37308

SOURCE: ECE, 1988

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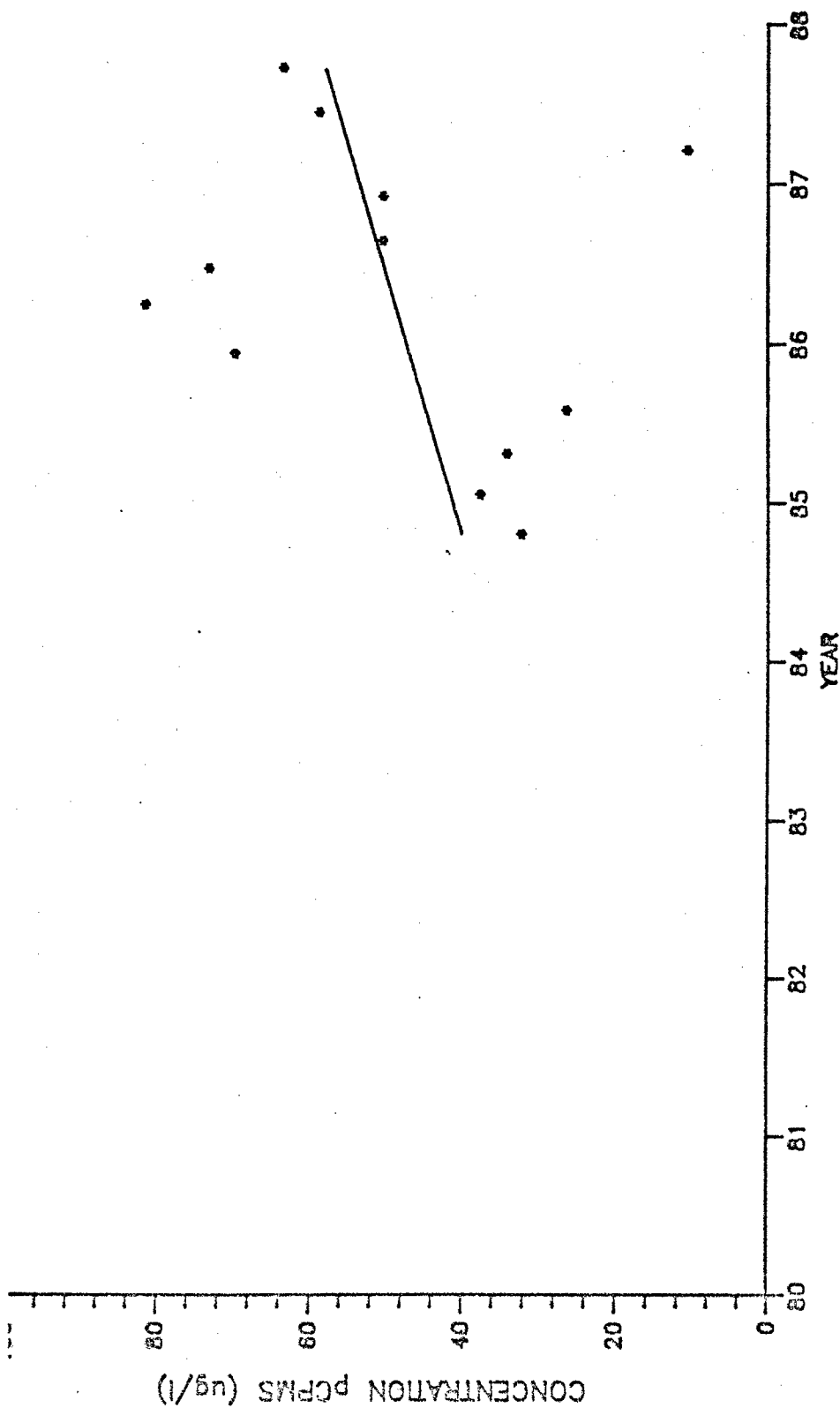


Figure B-121D

COMBINED ORGANOSULFURS CONCENTRATION (ug/l) VERSUS TIME
WELL 37308

SOURCE: ESE, 1988

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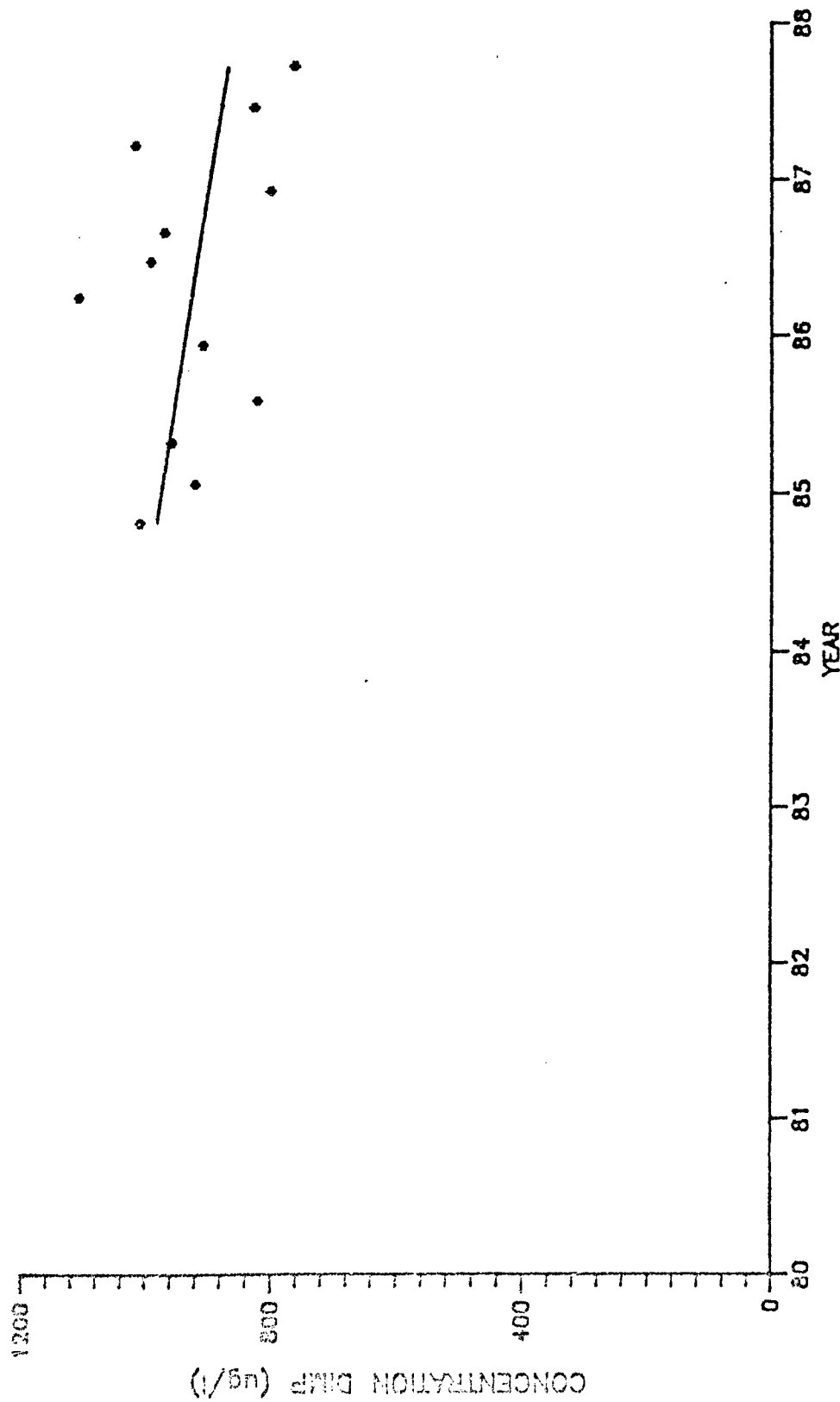


Figure B-122A
DIMP CONCENTRATION (ug/l) VERSUS TIME
WELL 37309
SOURCE: ESE, 1988

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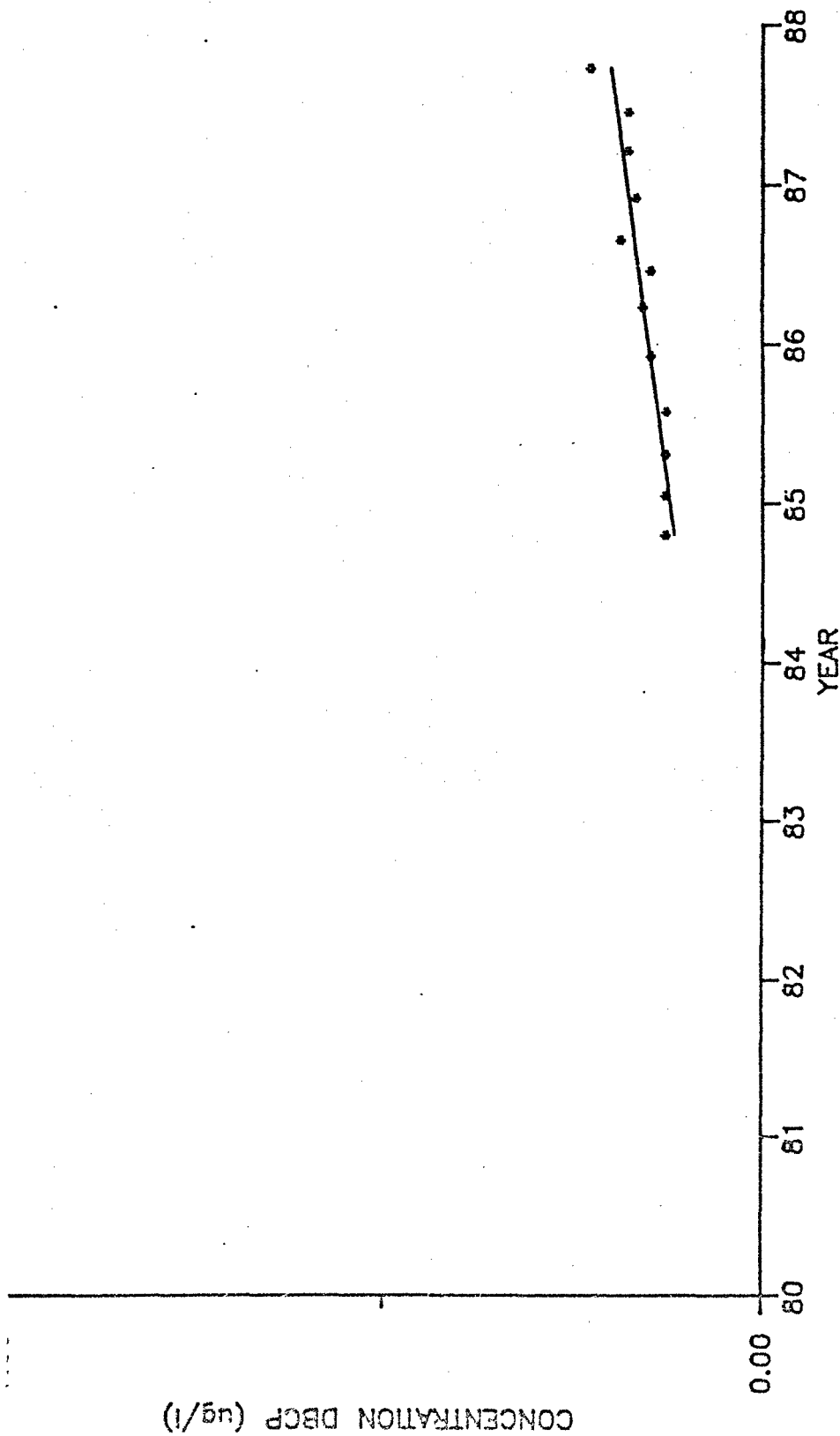
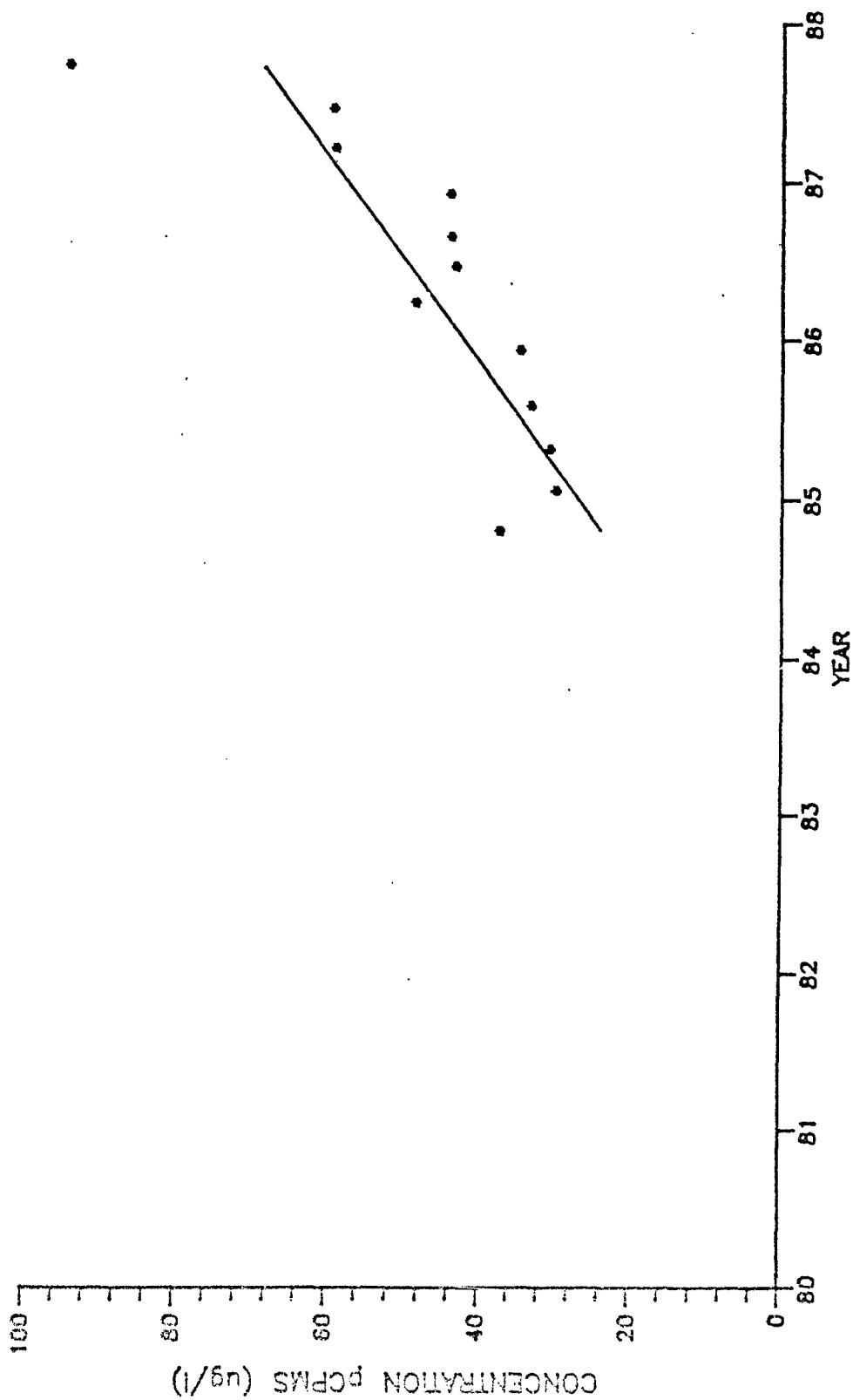


Figure B-122B
DBCP CONCENTRATION (ug/l) VERSUS TIME
WELL 37309

SOURCE: ESE, 1898

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Note: Regression line equation is $Y = 15.361813X + -1260.3$

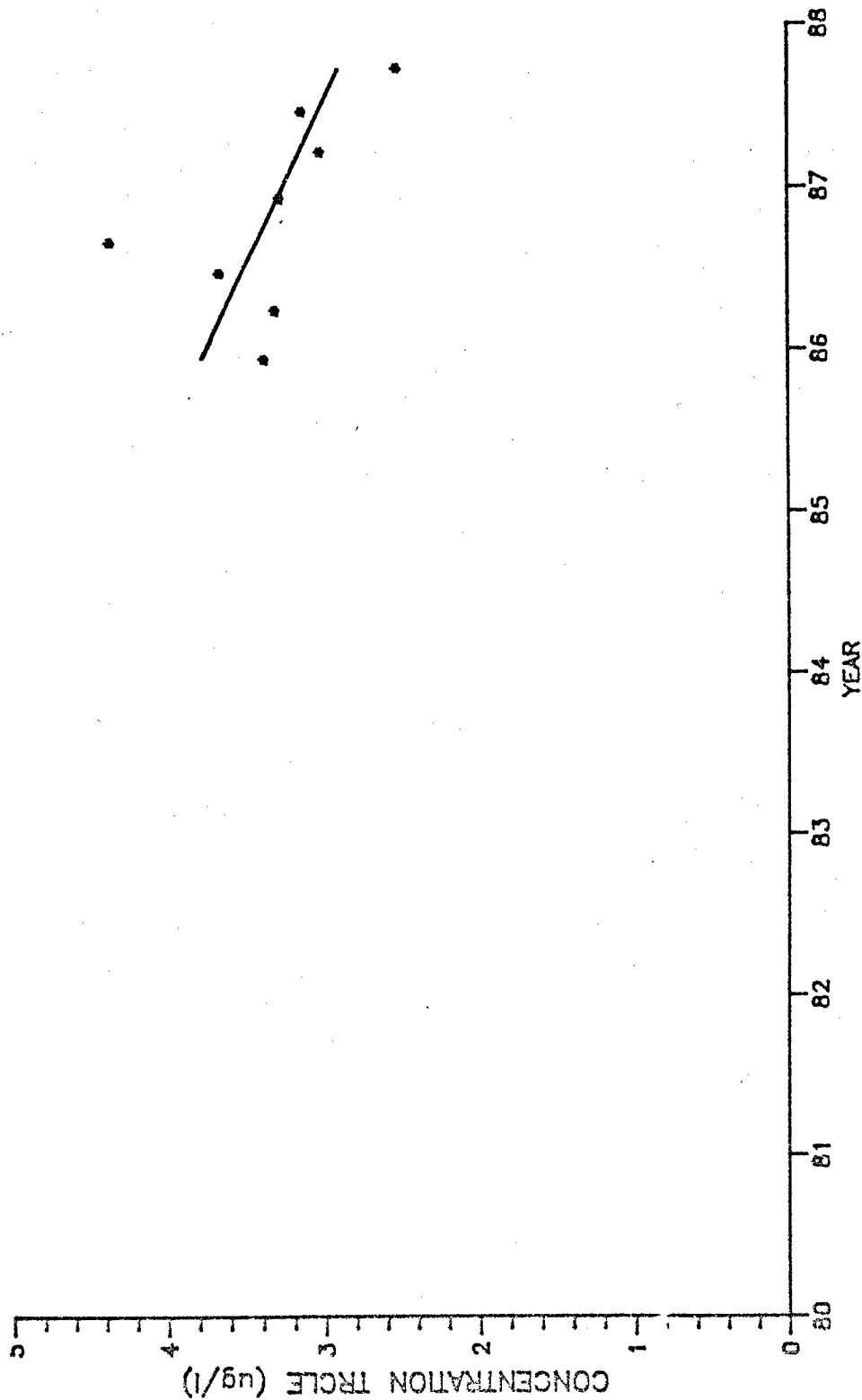
Figure B-122C

COMBINED ORGANOSULFURS CONCENTRATION (ug/l) VERSUS TIME
WELL 37309

SOURCE: ESE, 1988

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Figure B-122D
 TRICHLOROETHENE CONCENTRATION (ug/l) VERSUS TIME
 WELL 37309
 SOURCE: ESE, 1988

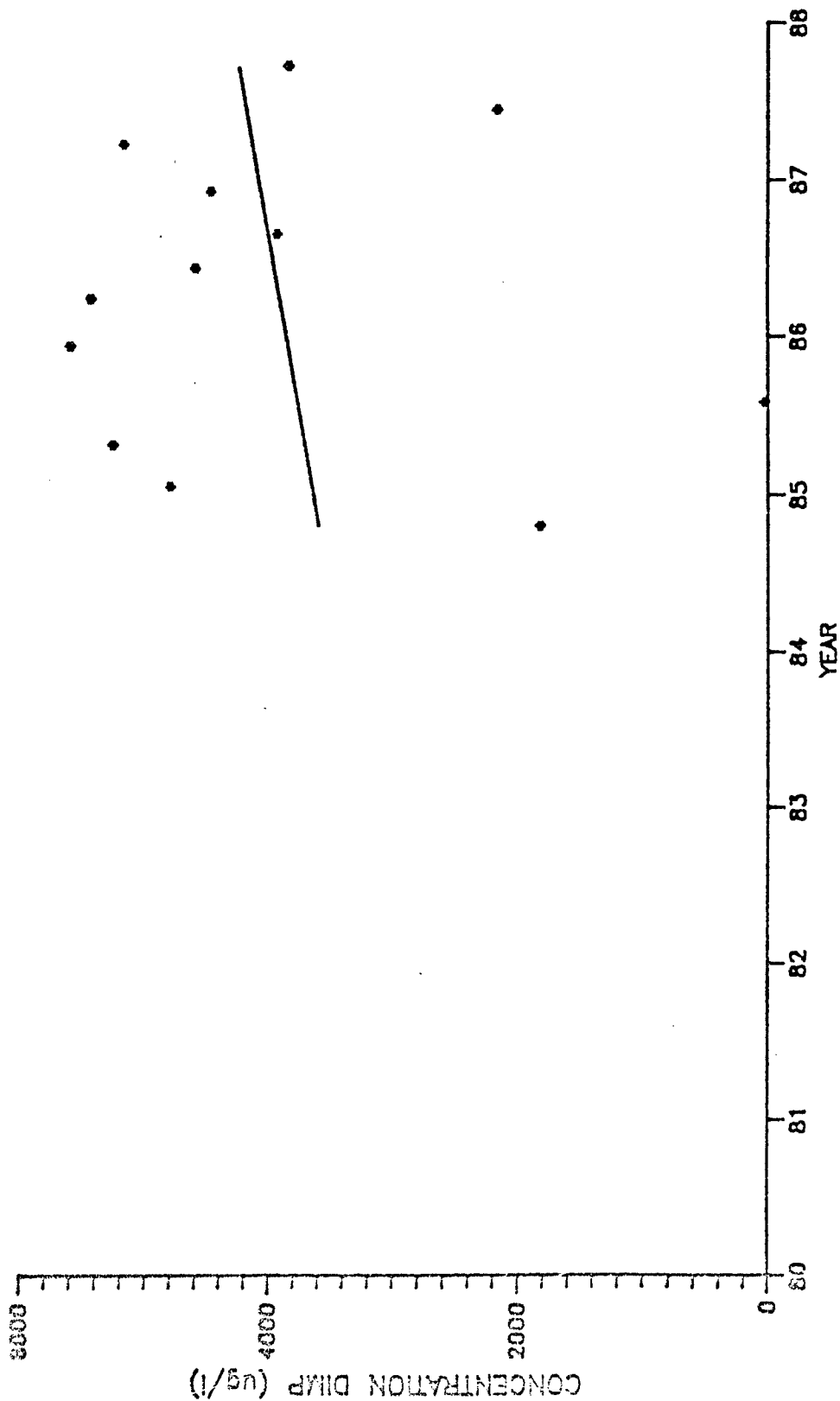


Figure B-123

DIMP CONCENTRATION (ug/l) VERSUS TIME
WELL 37313

SOURCE: ESE-1038

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